

BADGER STATE

Smoke Signals

For Radio Amateurs • By Radio Amateurs

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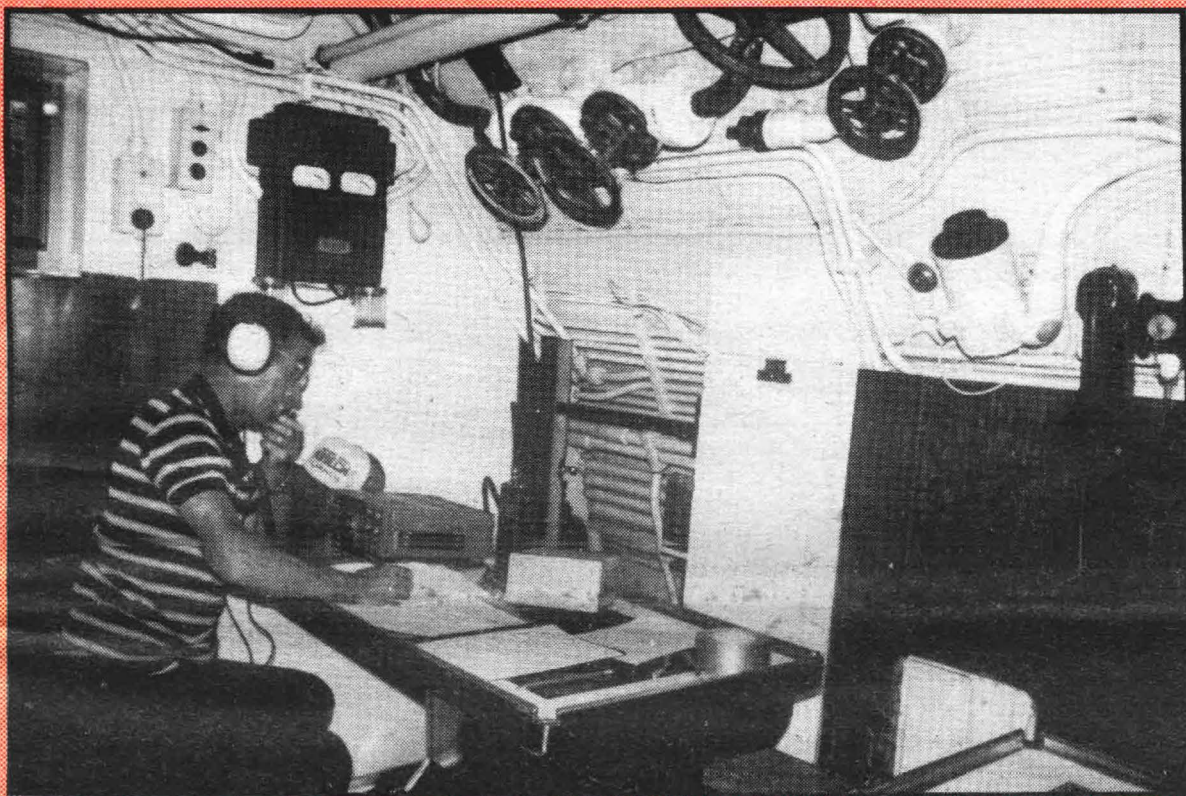
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Vol. 22 No. 4 - 256th Consecutive Monthly Issue - Baraboo, Wisconsin - April 1991

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822 Wauona Trail
Portage WI 53901

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Not a Sub Standard Station



In 1989 and 1990, the Manitowoc County Radio Club (ManCoRad) operated a Special Event station aboard the World War II submarine USS Cobia, which is in the Manitowoc River. Here, Clancy Meneau, KE9ECW, operates W9DK in the crew's mess. The Cobia is a National Historic Monument and is part of the Manitowoc Maritime Museum. Read more about the Special Event station on page 7 of this issue.

- Photo courtesy John Meyer/NZ9Z

FCC Applying 220-222 MHz Boot

The Federal Communications Commission, on March 14, issued a Report and Order in PR Docket 89 552, adopting rules for the use of 220-222 MHz by the Private Land Mobile Radio Service. Amateurs will be required to discontinue all operations in the

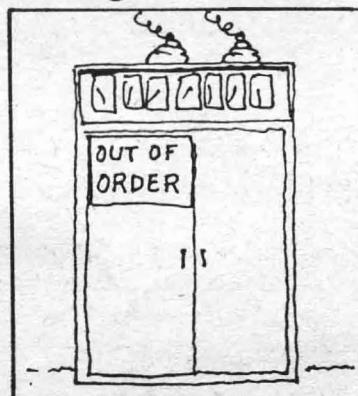
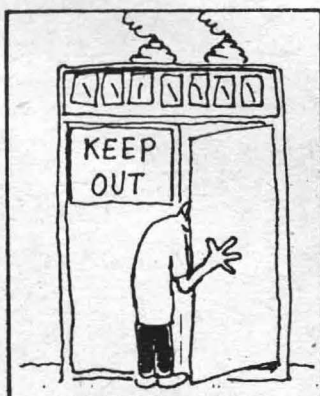
220 to 222 MHz band 90 days after the effective date of those rules, which has not yet been announced.

Amateurs probably will have to vacate the 220 to 222 MHz part of the band in late July.

- ARRL Bulletin 15, March 14, 1991

- The ARRL Letter, 2/21/91

ELMER



Badger State Smoke Signals

By Rich Regent, K9GDF

Fees in Our Future Again?

The proposed Federal Communications Commission budget for fiscal 1992 includes a proposal for a "Revised Fee Collection Program," to generate an additional \$65-71 million during Fiscal Year 1992. "The total projected revenue will be derived from new annual user fees designed to recover non-application processing operational costs incurred by the Commission," the proposal says. "These costs would be associated with the Commission's Policy and Rulemaking, Enforcement, Public Service, and International activities," the proposal reads.

"The Commission proposes to leave intact its current application processing fee collection, although it may be desirable to adjust individual fees associated with this system in future years," the proposal says. Amateurs were exempted from application processing fees when such fees were enacted by Congress in late 1989 as a part of budget reconciliation.

The Commission would implement the new annual fees beginning Oct. 1, 1991. Sources indicate that the required revenue figure came from the federal Office of Management and Budget, and there is as yet no information available as to how the Commission would go about raising the money.

The proposal made *no* specific mention of any service, amateur or otherwise, other than to say that the annual fee would be billed to approximately three million licensees and other "users" of Commission services (e.g. cable television systems).

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Swapfests and Other Social Events

SATURDAY, APRIL 6, 1991. Rochester Minnesota Hamfest. Contact: John Scott, NOHZN, 2824 24th St. NW, Rochester, MN 55901.

SUNDAY, APRIL 7, 1991. MARA Swapfest, Madison WI. (See ad this issue.)

SUNDAY, APRIL 14, 1991. Amateur Radio and Computer Fair, Rockford, IL. Forest Hills Lodge, 9900 Forest Hills Rd. (at IL Rt. 173). Contact Rockford ARA, 200 Westmoreland Ave., Rockford, IL 61102. (see ad this issue)

SATURDAY, MAY 4, 1991. 13th annual Cedarburg Swapfest at the Circle-B Recreation center, Highway 60 and County I. Contact: ORC Swapfest, 11448 Laguna Drive, Mequon, WI 53091. (414) 242-4995.

SATURDAY, MAY 4, 1991. The Ozaukee Radio Club will sponsor its thirteenth annual Cedarburg Swapfest at the Circle-B Recreation Center, Highway 60 and County I. Contact ORC Swapfest, 11448 Laguna Drive, Mequon, WI 53092. (414) 242-4995.

SATURDAY, MAY, 11, 1991. Lakeshore Swapfest, Manitowoc, WI.

SATURDAY MAY 11, 1991. Tri County ARC annual hamfest. Held at the Jefferson County Fairgrounds Activity Center, Hwy. 18 West, Jefferson, WI. Contact: TCARC, W9MQB, 213 Frederick St. Fort Atkinson, WI 53538. (For more information, see the ad in this issue of BSSS.)

SUNDAY, JUNE 16, 1991, FATHERS DAY. 14TH ANNUAL CWRA Swapfest, Stevens Point, WI. University Center, UW Stevens Point. Tables and electrical power will be available for commercial vendors. Groups are invited to request space for meetings, etc. Exams available, see testpoint. Contact: Art Wysocki, N9BCA, CWRA SWAPFEST Chairman, 3356 April Lane, Stevens Point, WI 54481. (Watch for flyer ad in May issue and see ad on back page.)

SATURDAY, JULY 6, 1991. South Milwaukee Swapfest. (See ad on last page this issue.)

SATURDAY, JULY 27, 1991. Annual Eau Claire Hamfest and Computer Expo., Eau Claire, WI. Contact: Liz Searing, N9EQR, 1129 McKinley Road, Eau Claire, WI 54701. (715) 834-1303. (see ad on last page and watch for flyer ad coming soon)

AUGUST 23-25, 1991. 1991 ARRL NATIONAL CONVENTION AND HAMFEST. Saginaw, Michigan. Contact: 1991 National ARRL Convention, P.O. Box 1783, Saginaw, Michigan.

SEPTEMBER 21-22, 1991. PEORIA SUPERFEST. Exposition Gardens, Peoria, IL. Contact: Peoria Area Amateur Radio Club, P.O. Box 3508, Peoria, IL 61612-3508.

SUNDAY, OCTOBER 13, 1991. KMRA Swapfest, Waukesha, WI. Contact: KMRA Swapfest, P.O. Box

276, Waukesha, WI 53187-0276

SUNDAY, NOVEMBER 3, 1990. The FOXCITIES HAMFEST 91, will be held at the Starlite Club on Hwy. 55 North of Kaukauna. For information contact Don Baker, NB9J, 621 W. 7th St., Kaukauna, WI. 54130. (414) 766-3886.

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas. Send information on your event to Kenneth A. Ebnetter, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages. For information on rates and requirements for our advertising pages, please contact K9ZZ or K9EN.

Club Meetings

Do to space limitations we cannot always carry the full listing of Wisconsin and area club meetings. Please save the following listings for your future reference. We hope to have the full listing at least three times a year, and will carry any changes or additions between full listings.

BADGER AMATEUR RADIO SOCIETY
(W9YT - U. W. - MADISON)

Monthly while school in session - 2nd Wed. - 7:30 p.m. - B-314, Electrical Engineering Bldg.

CENTRAL WISCONSIN RADIO AMATEURS, LTD.
(STEVENS POINT)

Second Wed.

EAU CLAIRE AMATEUR RADIO CLUB
2nd Tue. - 7:30 p.m. - Parks and Recreation Bldg., Oxford and 1st Streets, Eau Claire. Hams, guests welcome. Travelers welcome on wide area club repeater K9UXP, 146.31/91.

FOUR LAKES AMATEUR RADIO CLUB (MADISON WI)
First and third Tues - 7:30 p.m. - Red Cross Bldg., 4860 Sheboygan Ave.

FOX CITIES AMATEUR RADIO CLUB
Third Mon. - 7:00 p.m. - Roosevelt Jr. High School, 318 E. Brewster St., Appleton. Info: (414) 766-3886.

GREATER MILWAUKEE DX ASSOCIATION
Fourth Mon. of the month at 7:30 p.m. Contact Jerry Scherckenbach, N9AW, at (414) 481-8831 for meeting location.

GREEN BAY MIKE AND KEY CLUB
Second Thur. - Red Cross Bldg., corner Danz and Deckner, Green Bay.

GREEN FOX AMATEUR RADIO CLUB
Third Mon. - 7:30 p.m. - Green Lake Town Hall, int. of county hwy. K and N.

KETTLE MORaine RADIO AMATEURS
Second Fri., 7:30 p.m. at the Waukesha County Technical College, Campus Science Building, Room 102. Talk-in on the N9KS 147.39 repeater.

Badger State Smoke Signals

Officers and Staff

Chairman: Kenneth A. Ebnetter, K9EN, 822 Wauona Trail, Portage WI 53901. Telephone (608) 742-3560.

Editor: Jim Romelfanger, 412½ Ash Street, Baraboo, WI 53913. No telephone.

Treasurer: Jim Decker, WB9UQT, P.O. Box 337, Baraboo, WI 53913-0337.

Subscriptions

1 Year	(12 issues)	\$9.75
2 Years	(24 issues)	\$18.00
3 Years	(36 issues)	\$26.00

Special club package reduced rates are available. For information, contact Ken Ebnetter, K9EN.

Where to Send It

Address changes and corrections should be sent to Ken Ebnetter, K9EN, address above.

Editorial material, photographs, feature articles, display ads, and exchange papers should be sent to Jim Romelfanger, K9ZZ, address above.

Inquiries about advertising should be directed to Ken Ebnetter, K9EN, address above.

Subscriptions should be sent, with check or money order, to Jim Decker, WB9UQT, address above.

When to Send It

The closing date for each issue is the first of the month for the next month's issue. (For example, the closing date for the May issue is April 1.) The only exception is for participating clubs. Participating clubs are requested to send their material no later than 7 days after the club's meeting. (For example, if your club meets on the 4th of the month, the material should be sent no later than the 11th of the month.) This material is to be sent to Jim Romelfanger, K9ZZ.

Conditions for Reprinting Material from BSSS

Permission is hereby granted to reprint articles from *Badger State Smoke Signals*, providing credit is given to the original author, publication in which the article first appeared, and to *Badger State Smoke Signals*. This credit is mandatory, and no material may be reprinted unless it is given. This newspaper is mailed from Portage, WI 53901. This newspaper is produced for Radio Amateurs by Radio Amateurs. It is all volunteer and non-profit.

Editorial Disclaimer

The opinions expressed in editorials, guest editorials, columns, articles, and letters from readers are the opinions of the authors only, and do not, unless otherwise stated, express or imply endorsement by *Badger State Smoke Signals*, or by any other organization.

LAKESHORE RPTR. ASSN.

Last Tue., Jan., Apr., Jul., & Oct., 7:30 p.m. Red Cross Bldg., 4521 Taylor Ave., Racine, WI.

MADISON AREA REPEATER ASSN

The meeting schedule for 1991 is as follows: Sept. 9 and Nov. 11.

MANITOWOC COUNTY RADIO AMATEURS

Directors Meeting: First Wed.

General meeting: Second Wed.

Both meetings held at 7:30 p.m. in the basement, Manitowoc City Hall, 817 Franklin St., Manitowoc.

MENOMONEE FALLS AMATEUR RADIO CLUB

Last Tue. - Doors open 7:30 p.m., meeting begins 8:00 p.m. - Security Savings and Loan, Menomonee Falls. Amateurs and guests welcome.

MILWAUKEE RADIO AMATEURS CLUB

Fourth Thur. - Room #280 Wauwatosa East High School, located at 74th and Milwaukee Ave. in Wauwatosa. No meetings in July, August and December.) Meetings begin at 7:00 pm.

NORTHERN WISCONSIN RADIO CLUB

4th Tue. - 7:30 p.m., Sept. through April. Peppermill Restaurant, Thunderbird Mall North, Menomonie, WI. Guests welcome.

NORTHWOODS ARC (RHINELANDER WI)

Third Tue. Doors open at 7:00 p.m. Meeting at 7:30 p.m. South Park School, Rhinelander, WI. Talk-in on 146.93/.34. All interested visitors to the Northwoods are welcomed.

OZAUKEE RADIO CLUB

Second Wed. - 7:30 p.m. - Saukville Community Center.

QCWA - WISCONSIN CHAPTER #55

Contact Robert Shady, KB9XR, Treasurer, 905 E. Doty Place, Milwaukee, WI, 53207. For information about meeting dates or joining QCWA Chapter #55. The Wisconsin Chapter holds Spring and Fall dinner meetings.

QCWA - SOUTHEAST WISCONSIN CHAPTER #162

Meets third Mon. monthly, 7:30 p.m., Around the Clock Restaurant, 3012 Rapids Drive, Racine.

RACINE MEGACYCLE CLUB

Second Mon., 7:30 p.m., Red Cross Bldg., 4521 Taylor Ave., Racine, WI

RIVERLAND AMATEUR RADIO CLUB

First Tue. - 7:30 p.m. - Onalaska Community Center, Onalaska WI.

ROCK RIVER RADIO CLUB

Monthly - first Tue. - 7:00 p.m. at Dodge County Sheriff's Department, 141 N. Main, Juneau, WI.

ARES Net: 146.04/146.64 Mon.s at 7:30 p.m. Sat.s on 7277 KHz at 10:30 a.m.

SHEBOYGAN COUNTY AMATEUR RADIO CLUB

Second Tue. - 7:00 p.m. - Sheboygan Red Cross/Boy Scout Bldg., 2032 Erie Ave.

SOUTH MILWAUKEE AMATEUR RADIO CLUB

First Wed. - Legion Post 434, Shepard Ave., Oak Creek WI. Auctions in March and October.

TAYLOR COUNTY AREA AMATEUR RADIO CLUB (TCAARC)
MEDFORD

Usually the 2nd Thur. of the month at 7:00 PM sharp. Usual location: emergency government meeting room, basement of Sheriff's Annex to Taylor County Courthouse, 2nd and Ogden Sts., Medford, WI. Talk-in on 147.75/15 or 145.27(-600) repeaters. Amateurs & guests are welcome. ARS Net, Wed. nights at 8:30 PM on 147.75/15. For info contact: Rolland Walty, W9LEE, W4117 Hwy. 102, Westboro, WI 54490. (715) 427-3492

TRI-COUNTY AMATEUR RADIO CLUB

Sun. of each month. Meetings are held at 7:00 p.m., at the Trinity Lutheran Church, 314 Barrie, Fort Atkinson, WI.

WASHINGTON COUNTY AMATEUR RADIO CLUB

Tue.: ARES/RACES - 7:30 p.m., club meeting - 8:00 p.m., Town of Polk Town Hall, Hwy. 60 and Scenic Dr. Net on 146.13/73 every Mon. 7:30 p.m.

WATERTOWN AMATEUR RADIO CLUB

First Thur. of the month at 7:00 p.m., The Watertown Public Library, 100 S. Water St., Watertown, WI.

WAUPACA AMATEUR RADIO CLUB

First Sat. in March, June, September and December, at 9:30 a.m. at the Waupaca Fire Station in downtown Waupaca.

"CQ First Tue." - A social gathering and dutch treat luncheon at the King's Table in King, WI, on Highway QQ just south of highways 10 and 54 on the west side of Waupaca.

WEST ALLIS RADIO AMATEUR CLUB

Second Tue. - 8:00 p.m. - St. Peters Episcopal Church, 7929 Lincoln Ave. Entrance is at rear of building on alley.

WISCONSIN ASSOCIATION OF REPEATERS

Meetings are held Quarterly, with time and location to be announced. Repeater licensees, trustees, and sponsors are urged to attend W.A.R. meetings. All interested parties are welcome, as well.

WISCONSIN VALLEY RADIO ASSOCIATION (WAUSAU)

First Tue. - 7:30 p.m. - Location varies; info on 146.04/64, Wausau.

YELLOW THUNDER AMATEUR RADIO CLUB (BARABOO)

Days rotate: Scheduled meeting dates:

Tuesday, April 16

All meeting at the Baraboo Civic Center, Baraboo, WI. Meetings start 7:30 p.m.

Let Badger State Smoke Signals know your club's meeting dates, and we will let our readers know of your meetings and activities. There may be Amateurs in your area interested in joining your club, or members of other clubs interested in making an interclub visit.

FOR SALE: Ancient Helicopter. Amazing toy flies on its own power! Plans \$1.00 ppd. Dr. Tom King, WF9I, 4817 Sierra Dr., Eau Claire, WI 54701.

FOR SALE: Colorful United States Stamps. 100 all different. \$1.00 postpaid. Richard Regent, K9GDF, 5003 South 26th St., Milwaukee, WI 53221.

The Test Point

Amateur Radio examinations scheduled in and around Wisconsin

The following are known locations where Amateur Radio license examinations are scheduled in the Badger State area.

April 6, 1991	Madison, WI
April 10, 1991	Milwaukee, WI (MRAC)
April 13, 1991	Eau Claire, WI
April 20, 1991	Milwaukee, WI (BE)
April 25, 1991	Marshfield, WI (Tech. only)
April 27, 1991	Marshfield, WI
April 27, 1991	Fond Du Lac, WI
May 1, 1991	Milwaukee, WI (MRAC)
May 4, 1991	Cedarburg, WI (BE)
	Ozaukee RC Swapfest
May 11, 1991	Manitowoc, WI
May 20, 1991	Onalaska, WI
June 5, 1991	Milwaukee, WI (MRAC)
June 8, 1991	Dubuque, IA
June 8, 1991	Appleton, WI
June 16, 1991	Stevens Point, WI
June 22, 1991	Milwaukee, WI (MRAC)
July 27, 1991	Eau Claire, WI
August 10, 1991	Appleton, WI
September 4, 1991	Milwaukee, WI (MRAC)
September 7, 1991	Dubuque, IA
September 28, 1991	Milwaukee, WI (MRAC)
October 2, 1991	Milwaukee, WI (MRAC)
October 12, 1991	Eau Claire, WI
October 13, 1991	Waukesha (BE)
	KMRA Swapfest
October 26, 1991	Milwaukee, WI (MRAC)
November 2, 1991	Menomonie, WI
November 3, 1991	Kaukauna, WI
November 6, 1991	Milwaukee, WI (MRAC)
November 11, 1991	Onalaska, WI
November 23, 1991	Milwaukee, WI (MRAC)
December 7, 1991	Stevens Point, WI
December 4, 1991	Milwaukee, WI (MRAC)
December 7, 1991	Dubuque, IA
March 28, 1992	Menomonie, WI
November 7, 1992	Menomonie, WI

Monthly, First Sat. Racine, WI (except January, July & August)
Monthly, Last Sat. Tomahawk, WI (January thru October only)
Monthly, Third Sat. Loves Park, IL
Minnesota tests listed at end of column

GENERAL RULES

FOR MOST EXAMINATIONS:

Be sure to check with sponsors in the event there are changes and/or errors in the dates or information given.

Most examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walk-ins. Check with sponsor.)

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an FCC Field Office, the ARRL or Badger State Smoke Signals. Send a 29¢ SASE if you request one from the ARRL or BSSS. In most cases, forms can also be obtained from the sponsoring group.

(continued on page 22)

Wisconsin Nets Association Ltd.

Wisconsin Nets

Net	WNA	Freq.	UTC	CST	Mgr.
BWN	Yes	3984	1200	0600	W9AYK
BEN	Yes	3985	1800	1200	N9IAI
WSBN	Yes	3985	2330	1730	K9UTQ
WNN	Yes	3723	2400	1800	KA9FVX
WSSN	Yes	3645	0030	1830	N9BDL
WIN/E	Yes	3662	0100	1900	WB9ICH
WIN/L	Yes	3662	0400	2200	W9NGP
NWTN	Yes	34/94	0030	1830	NS9Q
		(Rhinelander area)			
6:30					
Net	No	01/61	0030	1830	KA9OMC
Gr. Bay	No	72/12	0245	2045	WB9NRK
		(Green Bay area)			
ARES	No	4.65/5.25	0200	2000	
		(South East/South Central Wisconsin)			
RACES	No	3993.5	1815	1215	WC9AAG
		(USB Tuesday and Thursday)			
RACES	No	3993.5	1400	0800	WA9OAY
		(LSB Sunday)			

Section Manager's Notes



Richard R. Regent, K9GDF
5003 South 26th Street
Milwaukee, WI 53221

February 1991

New officers of Madison ARA are: Pres. KB9AQQ; V. Pres. WB9YSD; Sec'y KA9QOT; Treas. WB9YON.

N9JXA has ham news computer bulletin board in Milwaukee area; phone 543-9060 to give it a try.

Sheboygan County ARC emergency net meets Mondays at 7 p.m. on 147.66 MHz.

Wisconsin Association of Repeaters officers are: Chairman N9CCI; Vice-Chairman WB9MHS; Secretary WA9POV; Treasurer N9AOZ; Frequency Coordinator WA9JOB; Technical Director N9GMT.

Fox Cities ARC May meeting will have election of officers and a member and guest social.

Riverland RC May meeting will have DX program by WU9N.

Society of Midwest Contesters badges can be obtained from Milwaukee's K1TMM.

K9KVA heads committee to focus on Madison's tower height ordinance.

Dentist W9VFD given free FLARC membership for his Army work in Saudi Arabia.

Exams will be held on May 1st beginning at 7 p.m. in the Wauwatosa East High School by the MRAC Team; contact W9JK or KE9JJ.

Correspondence

"Sandgram" Article Has Errors; May be Misleading, Confusing

I would like to bring attention to the article reference "Sandgrams" (*Badger State Smoke Signals*, March 1991).

I know it was done with the best interests of all and in good faith. However, I would like to point out a few things. One, it gives the impression that Air Force and Navy messages can be sent to the (Persian) Gulf. This is incorrect. **Only Army MARS can send messages to Army personnel. The other MARS services cannot.** Army MARS has handled some (traffic) for the Coast Guard and Air Force, because they have an Army Post Office number. It is not Air Post Office, as stated.

The Army runs the overseas postal service for the

Air Force; that is why we were able to handle some Air Force traffic. They also handled some Coast Guard mail who were in their area of operations.

Another problem is that Army MARS is very conscientious about MARS traffic, and many of these messages wound up on packet systems far from their destinations. Some were **never** delivered, and we have had instances of false messages being sent to loved ones. MARS members have been given a bad rap due to this situation.

(Some of the Sandgram article confusion may have been caused by) a new member who got into the MARS program for the Gulf crisis and took off handling traffic without a lot of training. Whether this is true or not, I don't know.

As admirable as the Sandgram program is, it has led to problems for MARS. It is better to just call a local MARS member with your message. I hope you put this in the *BSSS* and set the record straight.

Thanks.

- Bill Kraft, AAA5WI/K9NY
State Director,
Wisconsin Army MARS

SAREX '91 Crew: Amateurs All!

The astronauts in the photo at right will fly the next scientific shuttle mission (STS-37), which will also carry SAREX 91. The hams will operate FM voice, FM packet, SSTV, and possibly a one-way fast-scan ATV system to receive signals from earth. The astronaut-hams are (front) Ken Cameron (KB5AWP), pilot; Steve Nagel (N5RAW), mission commander; and Linda Godwin (N5RAX), mission specialist. In back are Jay Apt (N5QWL), and Jerry Ross (waiting for his license), both mission specialists. The mission is scheduled for launch April 4. (See page 20.)

- NASA photo



Racine Megacycle Club awarded KA9OIL as Ham of the Year.

Exams May 4th at Racine Red Cross Bldg.; info from NW9P.

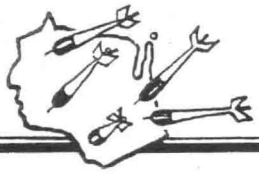
The Ozaukee RC Swapfest is May 4th starting at 8 a.m. at the Circle-B Recreation Center, Highway 60 and County I, north of Cedarburg, with tests by Badger Examiners. Look for me at the League booth near the stage. Ozaukee RC has renewed as Special Service Club, and elected new ORC officers: Pres. WD9DHI; V. Pres. WA9JOB; Sec'y W9ATK; Treas. KA9DDN.

ManCoRad RC will hold Lakeshore Hamfest and Computer Swapfest on May 11th, starting at 8 a.m., at the Manitowoc County Expo, Highways 42, 151, and I-43 on County Highway R, with amateur exams available at Silver Lake College.

May 25th exams by Tomahawk group; info from WA9W.

Sorry to report Silent Keys W9GSP and W9-IZG.

Thought for the month: *If a series of things can go wrong, it will do so in the worst possible sequence.* □



HERE and THERE

GOING TO THE MADISON SWAPFEST APRIL 7? Please be sure to stop by the *Badger State Smoke Signals* table and say hello! If you're not now a subscriber, you can sign up for a sub there or, if you are already a subscriber, it's a good opportunity to renew. At the very least, you can meet some of our happy newspaper crew. We expect to be somewhere in the vicinity of the ARRL table, but sometimes last minute changes in table assignments by the fest's sponsor are necessary.

PARTICIPATION IN THE WISCONSIN QSO PARTY was good again this year; at least it sounded that way to your editor. 40 meters was very productive, indeed, with lots and lots of stations on both CW and SSB. Your editor ran into some folks who have moved away from Wisconsin, both recently and in the distant past. Among those were Doug Beaudoin, KT8R, who, back in the late 1950's, was W9ADM. He was the resident station engineer at WWCF-FM ("high atop the Baraboo bluffs in Greenfield Township"). Doug worked worked a lot of DX on 6 meters from that lofty location. (The station is now WOLX.)

Among other noteworthy contacts (to your editor, at least) were Doug Smith, W9WI, who moved from Madison to Nashville some time ago, and Roger Falk, W9ERW, who moved to Indiana when Badger Army Ammunition Plant - and his job there - closed in 1975. He is now in Missouri, and is planning to retire in April. He says he plans to take a trip up this way after retiring.

The Wisconsin QSO Party is sponsored annually by the West Allis Radio Amateur Club. The deadline for entries is April 15, 1991. Rules and a score summary form were published in February, 1991 *Badger State Smoke Signals*.

W9YT ALUMNI NET: An HF net for alumni of the Badger Amateur Radio Society at the University of Wisconsin has been started by Scott Ellington, K9MA. The net meets on the second Tuesday of each month (Wednesday UTC) at 0400Z on 3.783 MHz. Scott indicates the net may move to 40 meters during the summer. Alternate net frequencies are 7.217 and 7.251.



Redd Beneditz,
W9IZG

Erwin "Redd" C. Beneditz, W9IZG, born February 14, 1906, died February 25, 1991, at the age of 85. Redd was possibly the most active and certainly the oldest member of the Rock River Radio Club. At 1990's RRRC Christmas Party, members presented Redd with their distinguished "Ham of the Year" Award, and gave him a sincere standing ovation for his hard work and loyalty. He held various RRRC officer positions over the many years, and was a member of Chapter 55 of QCWA and other clubs.

Advanced Class W9IZG, first licensed in 1932, operated his Kenwood HF rig on all bands with an 80-meter half-wave long wire antenna. He could also be found using his two-meter transceivers into a two-meter beam, including operating packet

radio with VIC-20 and Commodore-64 computers. Redd enjoyed just listening and monitoring, but he was there when you needed someone to talk to.

Living in Juneau, Wisconsin, Redd was a radio technician and electrician as the radio man for Dodge County before he retired. Besides Ham Radio, he loved music, singing, dancing, and fishing. You could recognize Redd: nearly bald, dark rim glasses, and a friend with a pleasant, big smile.

Redd knew how to have fun and share his humor. Last year, the RRRC had a prize drawing at a club meeting, for a World Clock donated by Icom. When the winning ticket was drawn, the winner was Redd's friend Arnie, KA9FNE. Redd then asked that all the tickets be checked, hinting that his friend Arnie's name might be on *all* the tickets. Everyone laughed with Redd. But now we are silent, still recalling moments with Redd in our memories.

Amateur Radio will surely miss you, Redd, W9IZG.

- Richard Regent, K9GDF

The station at W9YT is being moved across the hallway from the room it occupied for many, many years, thus the station will be off the air for a while. (Another move may be necessary when an addition to the Engineering Building is completed in a couple of years.)

- Scott Ellington, K9MA,
via Kevin Kolpitcke, WB9YHB

THE 1991 ARRL NATIONAL CONVENTION will be held in our area this year. The convention will be August 24 and 25 in Saginaw, Michigan. Reservations for hotel rooms are being handled by the Saginaw County Convention and Visitors' Bureau, and must be received no later than July 23, 1991. More information about lodging is available by calling the Bureau at (517) 752-7164 or (800) 444-9979. Room deposits should NOT be sent to the Convention Bureau. Of course, the League's publication *QST* will publish full information about the convention in an upcoming issue. And, if space permits, we will carry more information here in *Badger State Smoke Signals* as well.

Silent Key

WALTER L. (WALT) SCHULER, SR., WA9-ZFC, age 57, of Moundville Township (north of Portage, WI), died Saturday, March 16, 1991. Funeral services were held on March 19, and burial was in the Moundville Cemetery.

Madison Special Event Station

The West High School Amateur Radio Club in Madison, WI will operate Special Event Station KB9NG April 22-26, to commemorate the school's Fine Arts Week. Operation will be from 1300Z to 2200Z in the lower 30 KHz of the General Class 15 and 20 meter phone bands, and in the 10 meter Novice phone band. QSL with SASE to WHARC, 30 Ash Street, Madison, WI 53705.

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8104

Solar Cycle 22: Another Look

By Woody Minar, K9EF
13508 Tabscott Drive
Chantilly, VA 22021

In the November, 1990 issue of the *Smoke Signals*, I provided some insight as to where Cycle 22 is, and a prognosis of its future (see "Solar Cycle 22: How Much Longer?"). What follows is an update, with two graphs to give you a different look at this same issue.

Knowing that the bell curve of a solar cycle has a predictable rise time, oscillation time, and decay time, we can perform some simple analyses and forecasting. The first graph plots, on a monthly basis, the end of Cycle 20 (May 1974 to July 1976); the entire Cycle 21 (July 1976 to September 1986); and, Cycle 22 to date (September 1986 to February 1991). For comparison purposes only, I stacked the monthly mean Solar Flux Units to show the similarities of the cycles - the peaks and valleys, month-to-month, year-to-year.

Graph two shows the cycles side-by-side. Each data point represents the actual mean Solar Flux Units for each month. February, 1991 is shown as a dot on the graph. Data points to the left of it are the actual cycle. Assuming that Cycle 22 will last as long as Cycle 21, we can extract the equivalent remainder of Cycle 21 and add it to Cycle 22; thus, the data points to the right of the dot represent a forecast. From this, we see that the "last Hurrah" of good propagation will occur in late 1992 or early 1993 before trailing off into final decay and death in late 1996 or early 1997. □

FCC Widens Ham "Scanner Law" Exemption Probe

The Federal Communications Commission is considering a request from the American Radio Relay League to pre-empt certain state laws that may prohibit even the possession of radios used by hams on amateur frequencies, if those rigs happen also to hear police or other public safety channels.

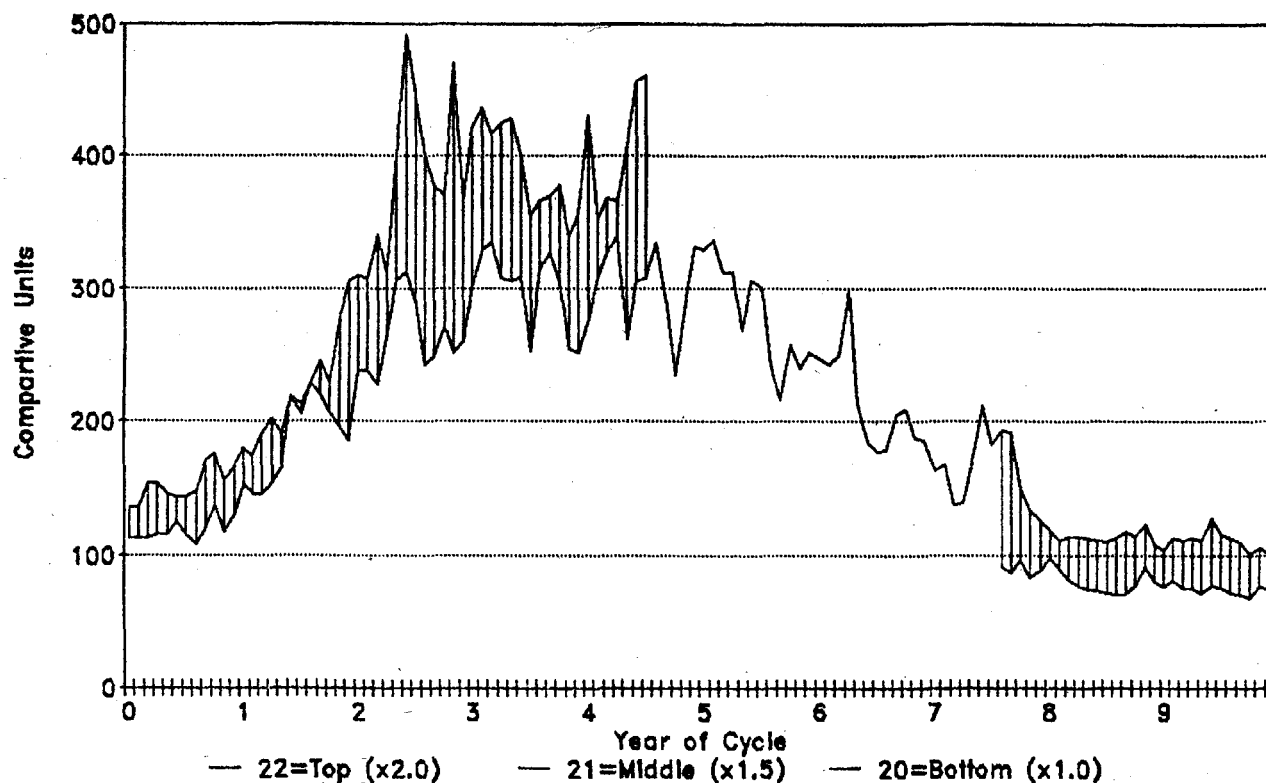
The restrictions are known broadly as so-called "scanner laws", and they generally include penalties that range from fines to confiscation of equipment. The problem was first brought to the Amateur Radio community's attention by the League's Hudson Division Director, Steve Mendelsohn, WA2DHF, after some of his constituents residing in New Jersey were dinged by law enforcement officials attempting to enforce that state's highly restrictive regulations over such receivers. Earlier this year, a Rule Making request to pre-empt amateurs from these state and local regulations was brought by the ARRL and assigned as Docket 91-36 by the Commission.

The FCC now wants to know whether its Rule Making, if any, should address a wider range of subjects related to Amateur Radio receiving equipment. Specifically, it is requesting input on the feasibility of deleting frequency reception capability of existing radios beyond their ability to receive the Amateur Radio allocations. The Commission also wants to know whether future marketplace Rule

Graph 1

Solar Cycles 20, 21, & 22

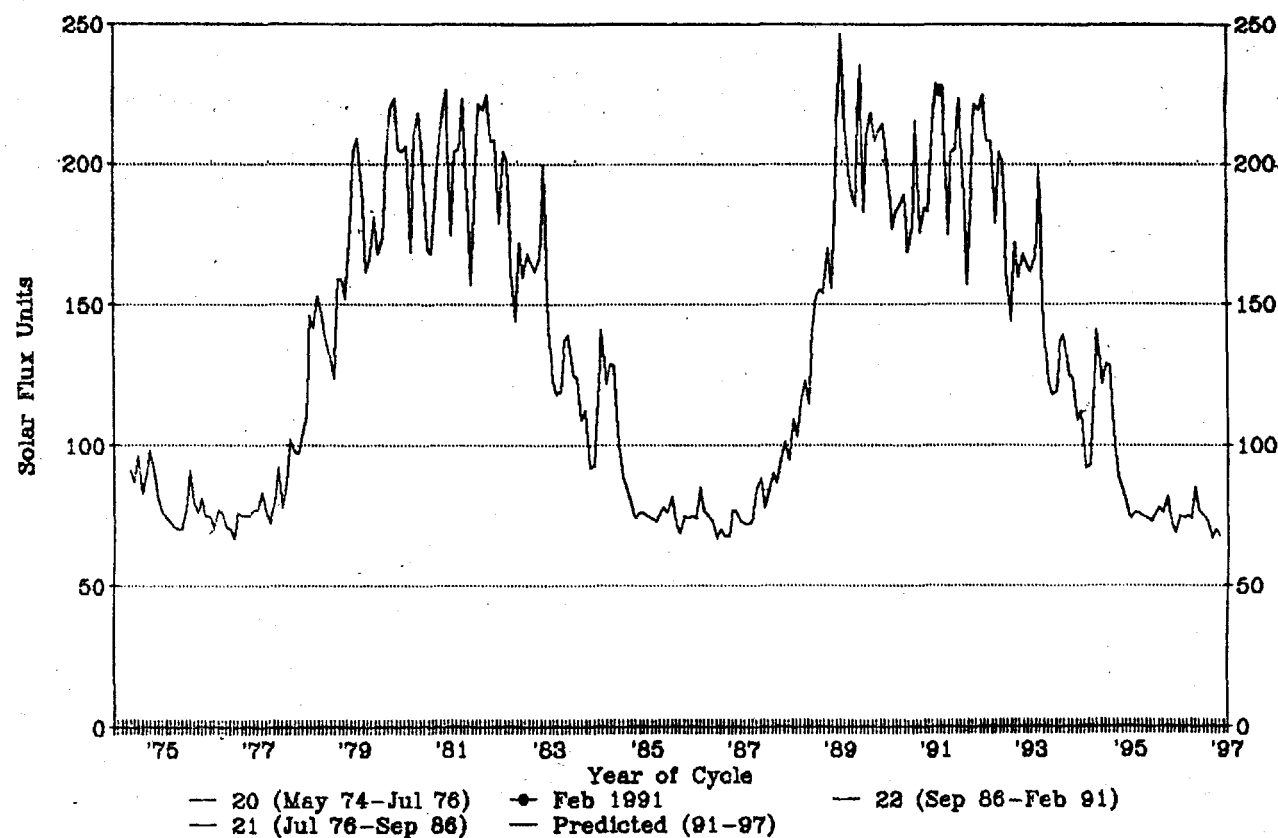
May 1974 - February 1991



Graph 2

Solar Cycles 20, 21, & 22

May 1974 - February 1991



Making is appropriate to include some restrictive receiver design criteria.

The FCC has already solicited comments on the pre-emption proposal itself, and notes that comments need not be filed again on that issue as the process moves ahead. The ARRL has recounted instances to buttress its request for the pre-emption Rule Making by citing cases where amateur operators have had their rigs confiscated while traveling outside of their

home territory and into areas hostile to owners of scanners and other such devices.

These other issues were added to Docket 91-36 as the FCC seeks opinions on these other points which have been raised.

- Newline's Paul Courson,
WA3VJB, in
Westlink Report, 3/1/91

Underwater Radio!

By John Meyer, NZ9Z
P.O. Box 146
Kellnersville, WI 54215

On August 5, 1990, for only the second time in many years, RF energy once again flowed into the 25-foot long spring-loaded whip antenna atop the conning tower of SS-245, the USS Cobia. The Cobia is a World War II submarine, berthed in the Manitowoc River at the Manitowoc Maritime Museum. During the first weekend of August, beginning in 1989, this National Historic Landmark has become Special Event Station W9DK, as the ManCoRad Club of Manitowoc County activates the sub in celebration of Maritime week in Manitowoc.

Two stations operate as W9DK during Museum hours (8 a.m. to 7 p.m.) over the weekend. One station is located on board the submarine, in the crew's mess, amidship. Coax is run from a TS-440S/AT there (actually below the water line), up the central hatch, to the sub's own vertical antenna. The other station is located nearby, in ManCoRad's Emergency Communications vehicle, an Army 6 by 6 turned into a communications vehicle by the club. The truck is equipped with a Mosley tribander atop a 50-foot telescoping mast mounted on the side of the truck. Also used is a G5RV in the inverted vee configuration from the mast. These are operated with another TS-440S/AT. Also available in the truck are 440, 220, 2M FM, and 2M packet stations.

During the 1989 Special Event Station's operation, 750 contacts were made in 45 states and 25 foreign countries. DX contacts from the submarine included Liberia, Indonesia, and Siberia. Contacts were made with Hams who had served on Manitowoc-built submarines (called by submariners the best subs in the fleet during WW II), others who had built submarines, and one Ham who, as a coast watcher during World War II, has been dropped off at a remote island in the Pacific by a Manitowoc submarine. A handsome certificate was issued that year, detailing some of the history of the Cobia.

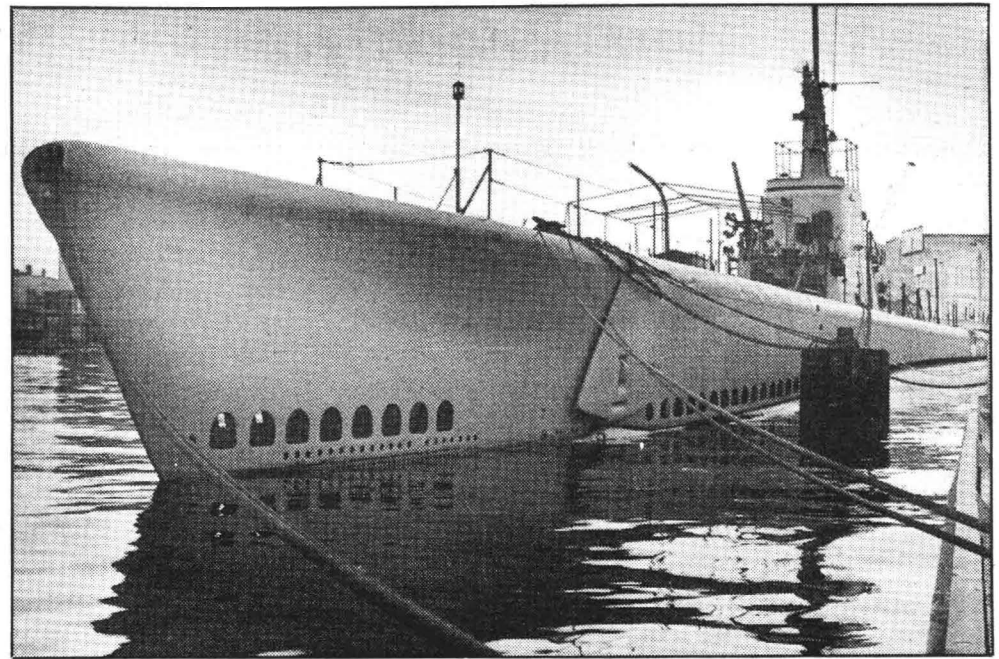
The 1990 Special Event Station made over 900 contacts in 48 states and 9 foreign countries. Best DX last year was Israel and New Zealand. QSOs were frequently punctuated by sounds of the Klaxon "dive" horn, as regular tours progressed through the sub. Additional authenticity came from the gentle rolling of the Cobia on the swells in the river. A QSL card with a photo of the Cobia was sent out in 1990.

Many ManCoRad members worked together to staff the Special Event stations, and guest operators from the Fox Valley and the Green Bay Mike and Key Clubs joined in the activities.

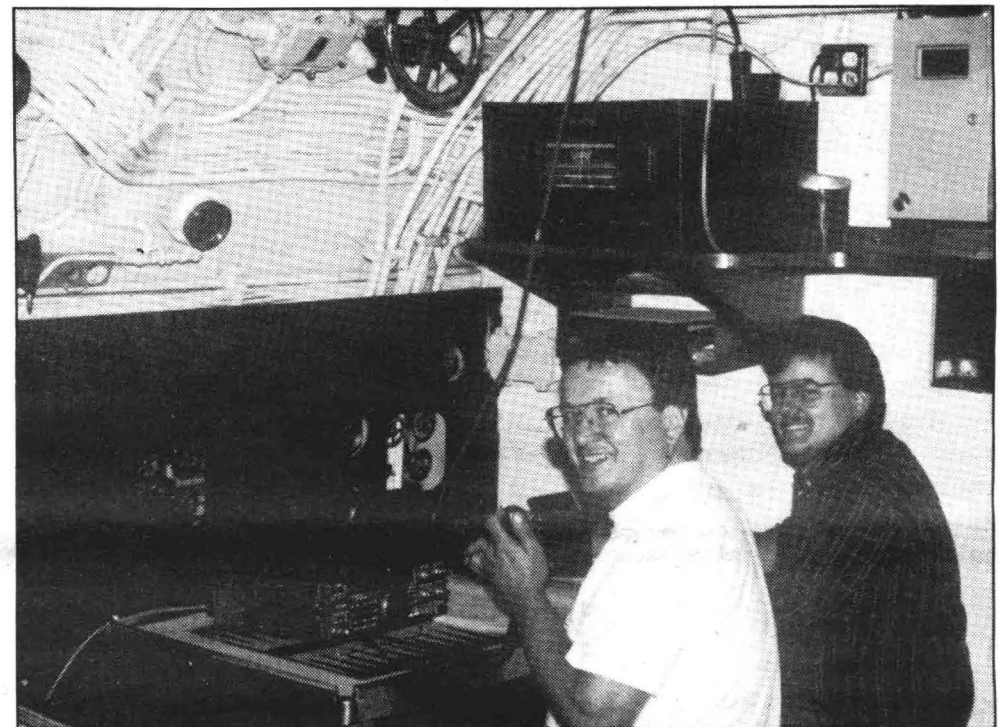
During Maritime Week, Manitowoc celebrates its long maritime and shipbuilding history (as displayed in the Manitowoc Maritime Museum), dating back to the Clipper sailing ships of the 1800s. During World War II, thirty-two submarines similar to the Cobia were built at Manitowoc and sailed down the Mississippi River (via the Chicago Ship and Sanitary Canal) to the war effort, and into history.

The ManCoRad Club hopes to activate the Cobia again this year, during the first weekend of August - watch for details in upcoming *Smoke Signals*. At present, the sub's own radios are not operating, but future plans and hopes center on refurbishing the gear (run on 32 volts DC) and putting it on the air. □

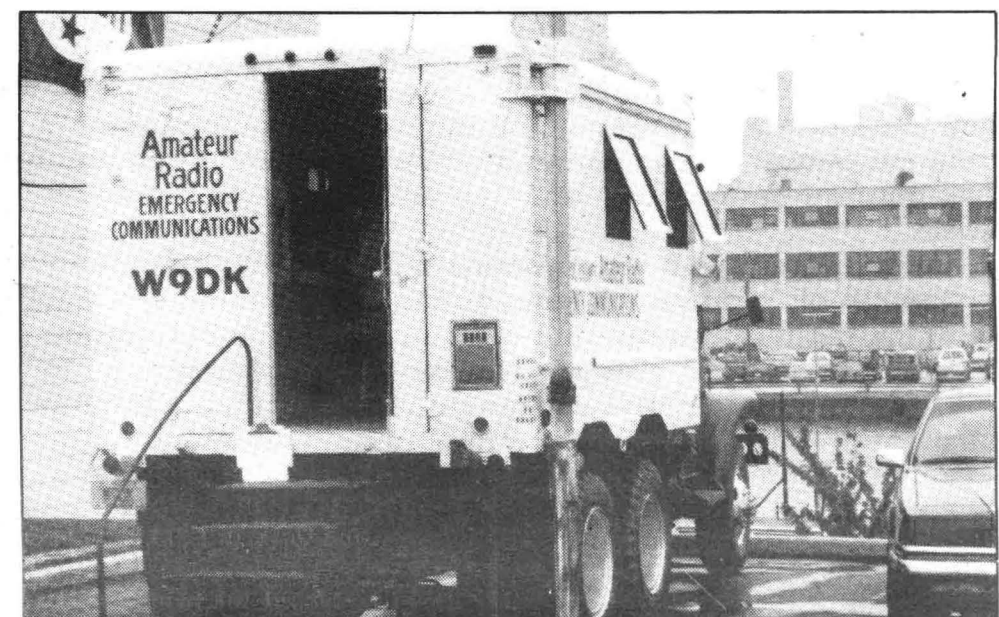
The Manitowoc Maritime Museum and the Cobia are open 7 days a week, year 'round. Hours are extended during the summer. There is an admission fee. The museum is located at 75 Maritime Drive, Manitowoc, WI 54220-6843. The museum's telephone number is (414) 684-0218. □



U.S.S. COBIA



ManCoRad member Dave Jaeger, WN9Q, shares the operating position at Special Event Station W9DK aboard the Cobia with his brother Dean, KA9AAD, of Merrill. The vintage radio above them doubtlessly tuned in Tokyo Rose.



The ManCoRad Emergency Communications vehicle houses the second Special Event Station, just above the Manitowoc River and the Cobia.

- Center and bottom photo courtesy John Meyer/NZ9Z

Are You Ready for Emergencies?

(The following is an article which appeared recently in the newsletter of the Anchorage Amateur Radio Club in south-central Alaska. Although obviously written for that region of the country, its message should not be lost on us.)

- John Offerdahl, KC9XH)

Ask a typical Amateur Radio operator to name a reason for being in the hobby and most will come up with "helping out in emergencies" as one of the primary examples. Unfortunately for most of us, this seems to be little more than lip service. In other words, we are not really ready or able to assist if needed.

Ask yourself if you could continue to operate if:

- There was a total power failure that lasted for several hours, or even a few days,
- A severe storm crippled transportation via flooding or extreme snowfalls, or,
- A geologic disaster, volcano, or earthquake were to strike with such force that most of the population was displaced or immobilized.

If the answer is anything but an unqualified "yes," then it is time to plan ahead for *when*, not *if*, these things occur.

Do you have a power generator and sufficient fuel for at least 48 hours of intermittent service? Stored food and water and extra clothing and blankets? How about tools, medical supplies, batteries, camping gear, spare parts and instruction books?

No one is suggesting that you become your own survival fanatic, but take some time now to think about how everyday things could be adapted to emergency service. A little thought now can save

precious time when it really matters.

Could that old tarp become a serviceable tent if you had a bit of rope and something to use for tent poles and pegs? How about food? Is your normal household pantry adaptable to use as emergency rations? Three to six cases of bottled water, or even club soda, can serve perfectly well as emergency drinking water, engine coolant, or even as reasonably sterile water for medical emergencies. Bar-b-que lighter fluid can start a campfire of frozen wood. A hundred other examples exist.

You and your family should be able to survive unassisted for at least 48 hours. A full week is better. It may take that long for relief agencies to become effective in case of a truly major problem.

On the operating side, are you equipped to carry on VHF communications, even if all the normal repeaters are off the air? Do you have portable masts or even snap-together beams for 2 meters? How about portable dipoles for the HF bands? What happens if you need to operate away from your home location? Are you a RACES member, or do you belong to some other group intended to coordinate emergency activities? Have you listened to, or participated in, traffic handling via nets to gain experience in relaying messages?

Think about it. If you are not completely ready, then work a little bit each week toward your goal. Soon, you will be much better prepared. And, after all, isn't that worth doing? ■

(Also see "Personal 72-Hour Emergency Gear List" on page 14 of this issue. - Editor)

Bill to Safeguard Amateur Allocations Gains Support

Largely as a result of letters from constituents, 23 members of the U.S. House of Representatives have signed on as cosponsors of H.R. 73, the "Amateur Radio Spectrum Act of 1991."

"When we get a copy of one of those letters," said the American Radio Relay League's Washington Area Coordinator Perry Williams, W1UED, "we make a House call" on the representative. "It is those letters from voters that really get things rolling."

More letters (and more cosponsors) could increase the bill's chances of being considered during this session of Congress.

March QST, page 42, gives a sample letter.

House members have also heard from the bill's sponsor, Rep. Jim Cooper of Tennessee. Here is the letter Cooper sent to his fellow representatives:

Dear Colleague:

Imagine the screaming and yelling you would hear if the Federal Communications Commission (FCC) proposed to take away one of your local television station's frequencies! But the FCC has done just that to amateur "ham" radio enthusiasts in

recent years - and the "hams" are boiling mad!

Over the holiday break, a number of "ham" radio operators in my district asked me for help with the FCC. They asked me to sponsor a bill to make sure they will not lose any more frequencies - they contend that they've already lost over 100 MHz, the equivalent of over 16 TV channels. So on January 3, 1991, I introduced H.R. 73, a bill to do just that. I'd like to ask for your support.

The "Amateur Radio Spectrum Protection Act of 1991," H.R. 73, would ensure that "ham" operators can continue to use all of the spectrum they now use. If the FCC proposes to use ham radio channels for some other use, the bill would require that ham operations be transferred to equivalent replacement frequencies.

Amateur radio operators are NOT the richest, most powerful Washington lobby - but I bet you'll hear from them. There are over 490,000 ham operators across America who go to work every day in factories, schools, and hospitals, and in their free time they enjoy a ham radio hobby. Yet when tornadoes, hurricanes, and earthquakes knock out telephone service, these "hams" turn into a volunteer network that provides helpful communications

services to the public. You may have heard about some of their efforts in providing communications links for forest fire fighters in remote areas.

I've come to believe that amateur radio operators are a valuable national resource, and I plan to do what I can to help them keep their frequencies. I need your help. Please consider joining me as a cosponsor by calling Dirk Forrister of my staff.

Sincerely,
JIM COOPER
Member of Congress

Here are the 23 members of the U.S. House of Representatives that had agreed (as of March 5) to cosponsor H.R. 73: Reps. Charles Wilson (D-TX); Jim Chapman (D-TX); Pete Stark (D-CA); Gerald Kleczka (D-WI); Norman Dicks (D-WA); Frank Horton (R-NY); Bart Gordon (D-TN); George Hockbrueckner (D-NY); H. Martin Lancaster (D-NC); John Paul Hammerschmidt (R-AR); Kweisi Mfume (D-MD); Sam Gejdenson (D-CT); Julian C. Dixon (D-CA); Jim Slattery (D-KS); Marilyn Lloyd (D-TN); John C. Doolittle (R-CA); Ed Jenkins (D-GA); John P. Murtha (D-PA); James A. Traficant Jr (D-OH); Hamilton Fish Jr (R-NY); Marty Russo (D-IL); Liz Patterson (D-SC); and Ben Jones (D-GA).

- The ARRL Letter, March 8, 1991
Published by the American Radio Relay League

BSSS editor's note: As you can see, the only Wisconsin representative who has signed as a cosponsor of H.R. 73, as of March 8, remains Gerald Kleczka. The only other representative in the upper midwest who has signed is Marty Russo of Illinois. This important bill needs and deserves much more support. If you have not written your congressman in support of H.R. 73, please do so now. If you do not know who your representative in Congress is, call your local city or county clerk. Send a copy of your letter to Perry Williams, W1UED, ARRL Headquarters, 225 Main Street, Newington, CT 06111. You might also send copies to both of your U.S. Senators (in Wisconsin, Bob Kasten and Herb Kohl).

- K9ZZ

Got The Picture?

Badger State Smoke Signals is always interested in good, interesting photos of Radio Amateurs taking part in any of the many activities the hobby offers. Photos taken at social events, transmitter hunts, Field Day, picnics, club meetings, public service communications events, and special event stations are just a few of the kinds of pictures we like to publish.

Photos can be either black and white or color. They must be sharp and properly exposed. They should tell a story, either on their own, or with a minimum of explanation. All subjects must be identified by full name, call sign, and city. Do NOT write anything on the backs of the photos! All photos for possible publication should be sent to the editor.

Milwaukee-Madison Chapter**Morse Telegraph Club Events Planned*****Annual Morse Day Meeting***

The "MW" Chapter of the Morse Telegraph Club will hold its annual Morse Day meeting on April 27, 1991, at the Mid-Continent Railroad Museum in North Freedom, Wisconsin. The meeting will include the exchange of greetings by telegraph with other MTC chapters. This will be done in the museum's depot from 9 a.m. until 4 p.m. The telegraphy is done over telephone lines, using tone-to-DC converters to operate the sounders. Guests are welcome to stop in.

North Freedom is about 8 miles west of Baraboo.

Special Event Station AD9E

The chapter will operate special event station AD9E on May 25 and 26, to celebrate the 147th anniversary of the first message sent by telegraph: "What Hath God Wrought." The station will be just west of the Mid-Continent Railroad Museum in North Freedom. Visiting Amateur Radio operators are welcome to stop in and operate.

The observance will also include the exchange of telegraph messages with other museums and a local telegraph demonstration.

Order of Railroad Telegraphers Anniversary

The 105th anniversary of the Order of Railroad Telegraphers will be observed on June 9, with a reunion sponsored by the MTC in Cedar Rapids, Iowa (the birthplace of the ORT). The reunion will be held in Usher's Ferry Pioneer Village Park in Cedar Rapids from 1 p.m. to 4 p.m.

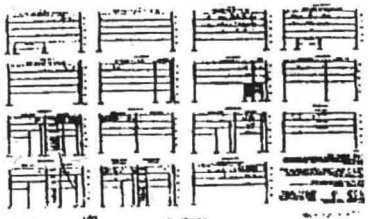
Labor Day Telegraph Demonstration

A telegraphy demonstration will be given on August 31 and September 1 at the Mid-Continent Railroad Museum in North Freedom.

Information, Please?

The MTC is not another Amateur Radio sub-group. With chapters throughout the United States and Canada, it is dedicated to preserving the history and heritage of the telegraph. Amateur Radio operators are welcome to join and take part in MTC events and activities. An excellent quarterly newspaper, *Dots and Dashes*, is published for MTC members. For more information about the M-W Chapter of the Morse Telegraph Club, contact Sid Vaughn, NØDJD, P.O. Box 291, Mount Vernon, Iowa 52314. □

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Chicago QCWA Chapter Officers Gather for Photo

In this photo, taken at its December 18 meeting, are the 1991 Quarter Century Wireless Association Chapter #2 officers and board of directors. Standing, from left, are past Secretary Jim Rubens, W9MPE; Ernest A. Czosek, W9ULX; Ed Kelly, W9HPW; new Secretary Betty Sandburg, W9STR; Richard Sandberg, W9STQ; and Ero Erickson, KA9DYS. Seated, from left, are Harry Hansen, K9JIO, Treasurer; Lee Knirko, W9MOL, Editor; Al Mazure, W9LOB, and Paul Crum, W9LC, Vice-President. Unseen, behind the camera, is President Phil Brankin, K9UAA.

- Photo via Ero Erickson, KA9DYS

South-Central Wisconsin SkyWarn Net Preparing for Severe Weather Season

By John Offerdahl, KC9XH

Emergency Coordinator,

S.C. Wisconsin SkyWarn Net

P.O. Box 84, Verona, WI 53593-0084

Another winter is drawing to a close, and our thoughts must unfortunately turn to the impending season of severe weather. As coordinator of South-Central Wisconsin SkyWarn, I would like to briefly discuss operation of this year's weather net.

As in the past, the net will activate on the 146.28/146.88 repeater. The repeater is owned and operated by the Central Wisconsin Repeater Association, and it occupies tower space graciously provided at no cost by WOLX Radio (94.9 MHz), atop the Baraboo Bluffs.

Several satellite receiver sites for the repeater have been established in southern Wisconsin, and may be accessed by setting your PL™ tone to 123 Hertz. These remote sites will increase repeater system access for those using HTs or low elevation "storm" antennas. If the Baraboo machine goes down during a net, operations will transfer to the 147.75/147.15 repeater, located on the WMTV tower in Madison. The 147.15 repeater is owned and operated by the Madison Area Repeater Association.

All hams are encouraged to monitor the net during severe weather, and report local activity to the Net Control Station. Reportable activity includes:

- Wind exceeding 50 m.p.h. (as a rule of thumb, this is when small branches and limbs begin to break from trees),
- Hail 0.50" inches or larger,
- Obvious funnel clouds and tornado touchdowns,
- Heavy rain which could lead to flooding, and
- Incessant lightning.

When reporting local activity, hams should initially identify themselves with their entire call. In the interest of efficiency, the Net Control may then respond only to the suffix, e.g. "X-H, go ahead" or "X-ray Hotel, go ahead." Reporting

(Please turn to page 20, column 3)

Correspondence

Morse Code: Not a Requirement, but a Privilege!!

What is the reason that every Amateur is required to pass a code test to become licensed or to upgrade? What is the reason that the majority of Hams desire that this requirement be retained? I am afraid that the answer to both questions is that the code test is

being viewed as a convenient barrier to prevent the least industrious applicants from becoming Hams.

It is reasoned, by many, that if the code requirement is dropped, the exams will become too easy. This could result in a degradation of Ham Radio until it becomes simply a glorified form of CB. I have to agree; it certainly could.

However, an exam without a code test could be made more difficult, in a constructive way, by simply upgrading its technical content. This would have a positive effect, hopefully resulting in better-qualified licensees.

What is needed are exam questions pertinent to the proper operation of Amateur equipment and to

the most desirable procedures for the conducting of Amateur communications.

For example, Ham stores sell complicated and expensive SSB transceivers which can also be used to operate (inefficiently) on CW and FM. Most of us use them. They are truly "monuments to engineering", packed with features (and wires). No ordinary Ham would dream of touching their interiors with a soldering iron. We have become truly a generation of "appliance operators" because we have not been required to learn about the theory or proper adjustment of this equipment, even though we use it on a daily basis. If you listen to SSB QSOs, especially on nets, you will encounter mistuning, badly-adjusted speech processors, splatter, you name it. This is an area which has, up until now, been neglected on license exams.

CW has a definite place in the scheme of things, and its use should be encouraged. But we are not making any converts with our present brute-force procedures. An old saying is that "You can lead a horse to water, but you can't make him drink." Most Hams psych themselves up for the code exam, and barely squeak through it. Then they walk out of the examination room, and proceed to forget all about the code. After all, they never really wanted to learn it in the first place.

Using the code exam as a barrier to keep certain people out of Ham Radio merely engenders hate and illogic. How many times have you heard someone say, "If I had to learn the code, then newcomers should be made to learn it, too!". That is the poorest reason I can think of for retaining the code test, and hardly a commendable one.

Yet, code is an essential and useful part of communications, and has some unique advantages. It should certainly be retained as a part of Amateur Radio. CW transmissions occupy a small fraction of the bandwidth needed for SSB. This enables an operator to work through interference which would smother an SSB signal of equal radiated power.

Equipment designed to function only on CW is vastly more simple than our present day SSB monsters. Any person with a modicum of constructional ability could build a CW transmitter if he wished to do so. Admittedly, building a suitable CW receiver would be more difficult. This would be an attractive approach to get a young or old "new" Amateur on the air. On the other hand, the design and construction of an SSB transceiver can be undertaken only by highly skilled engineers using complex, expensive, sophisticated equipment. The entry price of such gear is upwards of \$1,000 in today's market. We cannot expect many beginners to be able to pay that price.

Finally, code, at any speed, is something of an accomplishment. Some Hams find a pleasure in a code QSO which is lacking in SSB. I won't attempt to explain why. These are the ones who, if code were to be made optional, would willingly submit to further testing to obtain access to special code segments of the spectrum.

So, let's keep the code, but only on an optional basis. Furthermore, let's reward those passing a special, voluntary code test by giving them access to the same exclusive frequency segments the FCC has already set aside for CW, including the entire 30 meter band. If we do this, we will be encouraging Hams to adopt CW instead of dropping it entirely as soon as they walk out of the testing room.

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I have a deep suspicion that CW has survived this long only because those who are calling the shots at ARRL and at the FCC are mostly old timers who grew up in Ham Radio at a time when only code was used. Soon all of them will be gone. After that, all those SSB, codeless, "horses who would not drink" will be in charge, and the bands will become wall to wall SSB.

I repeat. If we hang on stubbornly on our present course, we CW advocates are going to lose. What is needed is continued co-existence. So, let's arrange to abolish the code as a requirement, and make it a privilege instead!

- Charles W. Finnigan, NE4I
9845 Lake Georgia Drive
Orlando, FL 32817

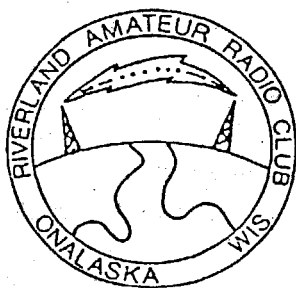
Editor's Note: Mr. Finnigan has been a Radio Amateur since 1929, and was "raised on CW". He is a volunteer examiner, and has taken part in every exam session in Central Florida since the VE program began.

He usually is the code examiner. □

Unpredictable Spring



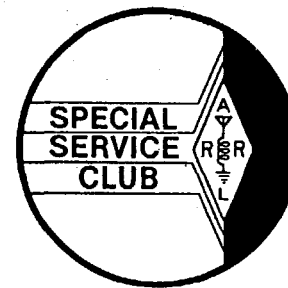
"WX IS WET... ABOUT 2:1 SNOW WITH RAIN"



Riverland Amateur Radio Club

Dean Summers, KQ0C, Secretary

631 10th Court • Onalaska, WI 54650



The March, 1991 meeting of the Riverland Amateur Radio Club was opened at 7:30 p.m. by our President, WD9GCR.

Our guest, Les Peterson, W9YCV, of Greenfield, was introduced.

The minutes of the February meeting were read and approved but, because of the absence of our treasurer, the treasurer's report was postponed until our April meeting.

Two new members, Rich, KA9ZZK, and Scott, KB9GCV, were welcomed to the club.

Old Business

There was no old business to handle.

New Business

Under new business, members were reminded that their club dues must be paid by tonight in order for the member to stay in good standing.

Since the Special Repeater Committee which had been established to investigate a site for a possible new repeater, had previously made its report, the committee was dismissed with thanks. Dan, WC0V, was appointed to chair a new committee to investigate the feasibility of a new repeater.

Other committee members will be appointed and announced at the April meeting.

Dan, WC0V, announced that his personal work load was such that he found it necessary to submit his resignation as club secretary. Nominations for a new secretary were called for, but each nominee declined, saying it was impossible for him to adequately fill the position. There being no further nominations, the matter was deferred until the April meeting.

There appearing to be no further business, announcements and items of general interest were called for. Discussed were Congressional Bill HR 73, the Wisconsin QSO Party, Wisconsin packet NTS net, the schedule of license exam sessions planned for May and November, and placing ham radio material in local public libraries.

A motion was made and seconded that the club go on record as supporting Congressional Bill HR 73; the motion carried unanimously.

The meeting adjourned at 7:55 p.m.

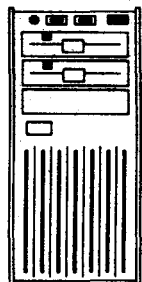
Following adjournment, Kent, W9LZQ, conducted a primer on SkyWarn, and he announced that a refresher course on SkyWarn would be conducted at the National Weather Service office in La Crosse at 10:30 a.m., Saturday, March 23.

Respectfully submitted: Dean Summers, KQ0C

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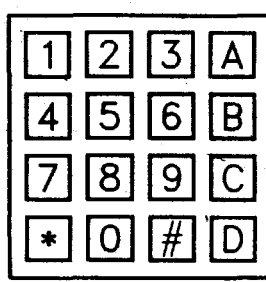
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At University of Wisconsin, Stevens Point



WB9QFW 2-Meter Repeater 146.07-.67 and Club Station

P. O. Box 847 • Plover, WI 54467

Minutes of March 13, 1991 meeting of the Central Wisconsin Radio Amateurs at UWSP

Submitted by Mike Pagel, KA9LAQ

The meeting was called to order at 7:30 PM by President KA9LAQ.

The roll included:

WB9E	Brian Feltz (with YL - Jackie)
N9JQR	Frank Podach
N9IAT	Mike Smith
WD9JID	Mike Eiden
W9BCC	Frank Guth
K9DB	Paul Nelles
KE9MA	Gene Kroll
N9EIL	Debra Kroll
KA9FAS	Mary Eiden
KB9DUR	Adriana Dix
KA9ACE	Jim Benak
NJ9H	Ron Howe
KA9TTU	Joe Mangal
KE9IA	Gordon Miller
WB9UMU	Chuck Miller
N9CGV	Joe Omernik
N9BCA	Art Wysocki
N9KNE	John Kinney
KB9FVV	Russ Fritz
KF9BG	Ray Dix
KA9LAQ	Mike Pagel
KB9???	Sara Weisensel

Secretary/Treasurer KF9BG (Ray) presented his report, and the minutes of the previous meeting were approved.

Reaction was sought to the first issue of the Badger State Smoke Signals. All comments were positive. At the request of N9CGV (Joe), KF9BG will investigate the issue of double subscriptions for those members who were already receiving the BSSS.

A request from N9JW (Joe Larson) was brought to the floor in his absence. As the Director of our Amateur Radio classes, Joe normally maintains a modest inventory of ARRL Instruction manuals for both the Novice and Technician classes. The recent classes in Stevens Point and Wisconsin Rapids have wiped out that supply, however, and Joe wishes to order additional copies to accomodate requests that will occur prior to the next formal course offering. A short discussion led to a group consensus. Joe received permission to use club funds to order additional materials (up to 10 copies of both the

Novice and Technician manuals), provided that the manuals will not be rendered obsolete by exam question changes in the next 12 months.

K9DB (Paul) announced his resignation from the Communications Coordinator role in conjunction with the Wisconsin Special Olympics Summer Games. KA9TTU (Joe) will assume this important post, with N9JQU (Dave) serving in a support capacity.

N9JQR (Frank) agreed to function as our official Photographer at the Summer Games. Hopefully, we will have photographs to submit to the BSSS and other publications.

N9BCA announced that he has added an additional item to the Raffle Prize list. CWRA members can expect to receive their General Raffle tickets in the mail by early April. The SWAPFEST flyer is being designed and will be ready for distribution in time for the Madison Swapfest.

KB9FVV (Russ) announced that he is looking for a hand key to purchase. Anyone with a spare is asked to contact Russ at (715) 345-0860!

Field Day is sneaking up on us with alarming speed. WB9E (Brian), Special Events Coordinator, will be rounding up volunteers to organize this important event.

Editor's Soapbox

Following our meeting, KE9IA (Gordon Miller) provided a program to describe his recent trip to the People's Republic of China. The 60 minute program passed quickly as Gordon narrated his slides, providing the group with a fascinating insight into his experience.

Too often, DX contacts become a means of keeping score in a competitive process. Gordon's program served to remind me that there are people and cultures behind those wavering signals and QSL cards.

At KA9LAQ, a friendly QSO with a UA6 station in 1988 led to an exchange of letters and gifts that has continued to the present. Among the many

Ham Radio News Briefs

- On March 2, WM4L/YI was worked by a number of amateurs on the 20 meter band. The operator, Maj. William Kane, said he was operating from a Cobra helicopter base in southern Iraq, near the site scheduled for peace talks between Iraq and the United Nations coalition countries.

Calendar of Upcoming Events

April 10	Club meeting
May 8	Club meeting
June 12	Club meeting
June 16	SWAPFEST/FCC exams (UWSP University Center)
June 22-23	Field Day!
June 27, 28, 29	Special Olympics Summer Games
July 10	Club meeting
August	Annual Fox Hunt/Cookout (Date to be announced)
September 11	Club meeting and Annual Elections

N9BCA pointed out that a local amateur had been receiving QSL's that he could not document. Fearing a bootlegger, our local began to investigate and ultimately discovered that the "bootlegger" was someone with a call similar to his, but with one additional letter in the prefix.

Art's point was that fast, sloppy, inarticulate speech will frequently lead to incorrect copy at the other end. To reinforce this point, W9BCC (Frank) mentioned numerous uses of local repeaters by amateurs who rattle their calls too quickly to be monitored. Slow Down!

N9CGV (Joe) pointed out an error in the BSSS listing of FCC exam dates for the December 1991 test in Stevens Point. The current listing identifies December 2, and the correct date should be December 7.

The meeting ended at 8:05 PM (close to our target for a 30 minute business meeting).

gifts Amateur Radio has provided for me, this experience rates at or near the top. I hope that each of you has a similar opportunity.

Our April Program will be provided by Dr. Eric Anderson, a Professor of Wildlife with the College of Natural Resources at UW-Stevens Point. Dr. Anderson will discuss current technology and techniques employed in monitoring the movements of wildlife via radio telemetry. Anyone with an interest in Fox-hunting should be at this meeting on April 10 at 7:30 PM in Room #A-107 of the UW-SP Science Building. Parking is free in University lots (except in metered stalls) after 7 PM.

Thanks for reading and 73,

de KA9LAQ

- April QST announces a new kind of Field Day competition: for the best recipe. The goal is to further recognize Field Day as a family activity, as well as to acknowledge that you can only get out of your operators what you put into them. Deadline for submission of recipes to ARRL (225 Main St., Newington, CT 06111) is April 24.

- The ARRL Letter, 3/8/91

On UW-Madison Campus

Engineering Expo '91

Over 100 exhibits featuring the latest advances in engineering technology will be showcased at the University of Wisconsin-Madison Engineering Expo '91 April 19-21.

Expo is a non-profit, student-run event held every two years since 1940. It gives engineering students, private industry, and government an opportunity to display new developments in engineering and technology. More than 17,000 people attended the last Expo, in 1989.

As part of Expo '91's theme of Sports and Engineering, one student group is displaying a Strategic Avoidance Coordination System (S.A.C.S.). The S.A.C.S. is a football helmet designed specifically for the quarterback. It senses and alerts him of oncoming defensive players attempting to sack him. Members of the UW-Madison crew team are displaying a racing shell along with the technical aspects of racing shell design and construction. Patrons of Expo '91 will also have the opportunity to test their rowing ability in a demonstrative rowing tank.

Other featured exhibits include the UW-Madison Formula SAE race car, a mountain bike driven aluminum can crusher, and tours of the university's nuclear reactor laboratory. Of course, the Badger Amateur Radio Society (B.A.R.S./W9YT) will have an exhibit of Amateur Radio on display.

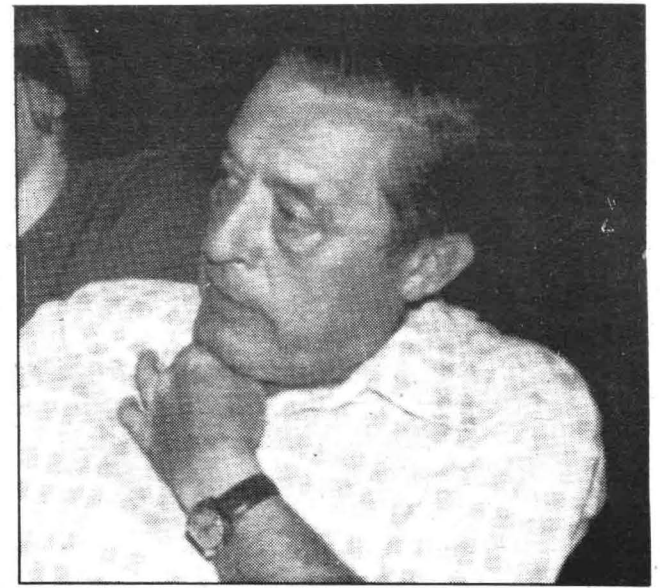
There will be corporate exhibits by General Motors, IBM, Amoco, James River Corporation, and Rockwell International. These and twenty other companies will be displaying the latest advancements in engineering technology.

Expo '91 will be held on the UW-Madison engineering campus at Randall Avenue and Johnson Drive, and will be open for the public on Friday, April 19 from 10 a.m. to 9 p.m.; Saturday, April 20 from 10 a.m. to 7 p.m.; and Sunday, April 21 from 10 a.m. to 5 p.m. Admission is \$2.50 for the general public; \$1.50 for senior citizens and students, and \$1.50 for UW-Madison students with valid ID. Children six and under will be admitted free of charge. Expo '91 is a "must see" for anyone (kids included) interested in science and engineering.

(Thanks Kevin Kolpitke, WB9YHB)

Silent Key

RAY HOFFMAN, WB9JYR, age 65, Greendale, died Tuesday, March 12. Ray was an avid Radio Amateur, and was a 20-year member of the West Allis Radio Amateur Club. He was president of the WARAC in 1985 and 1986. Ray was instrumental in the early success of the WARAC-sponsored Mid-Winter Swapfest. He also worked on the 1976 and 1979 ARRL Central Division Conventions held in Milwaukee, and was an active teacher of new hams in the club's classes. He organized the procurement of the club's distinctive jackets, and he enthusias-



Ray Hoffman, WB9JYR

Please turn to page 17

Lakeshore Hamfest & Computer Swapfest

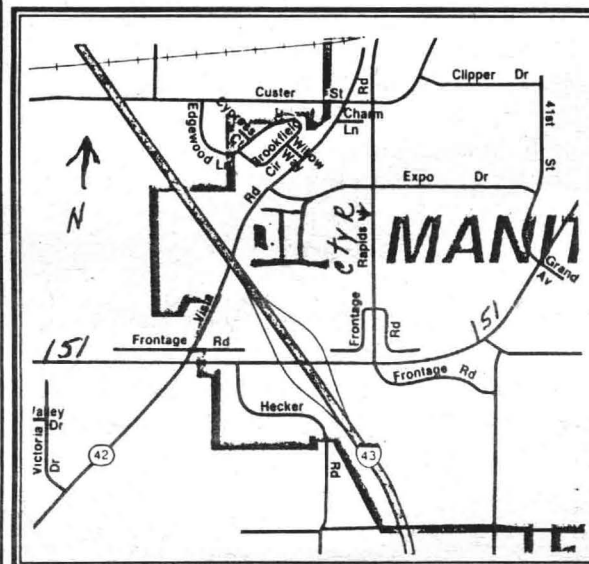
Manitowoc County Expo

Intersection of Hwys 42-151 and I-43 on County Hwy R (Follow signs to the Expo Center)

Saturday, May 11, 1991

- Doors open at 8 a.m.
- Open for vendors at 7 a.m.
- Accommodations for vendor drive-ins
- FCC amateur exams
- For more information, call
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Personal 72 Hour Emergency Gear List

By Mike Greenfield, N9JIY
405 East Paradise #4
West Bend, WI 53095

(Mike compiled this list and information for the Ozaukee Radio Club. He sent it along to BSSS so that we could share it with our readers. It will help you prepare to help in a disaster situation by telling you what you need to keep you fed, hydrated, and on the air for a 72-hour period by preparing kits in advance. Of course, there are things to do before you leave your home, too. That information is also included. - Editor)

Friends, when the Spam hits the fan, you will not have time nor mental power (because of panic) to get this stuff together, so do it now! How you gonna handle traffic if you are cold, tired, and sick because you didn't plan for your own support and comfort?

This list was created with seven ideas in mind. It is based on experience with California earthquakes and similar disasters.

Basics to Remember

- You may also be affected by the emergency, and not just be a helper who goes to the emergency site.
- You will be away from home or hotel, etc., for 72 hours, probably with no heat, possibly without shelter, and possibly with no food from the outside.
- Remember, you want to be part of the solution, not part of the problem!
- More important items are high on the list, less

important items are lower. Thus, water and shelter are #1 and #2.

- Everything will be put in one pack that you can carry by hand. Items should be packed in waterproof bags! Hint: You are usually closest to your car, so keep your kit there.

- One pack should be prepared for each person. You may be separated from friends and family in the emergency or in any relief effort.

- You are assembling your own 72-hour kit of tools, cases, power supplies, batteries, antennas, and equipment to fit and support your radio gear.

Before You Leave Your Home

After you make up your kit, also make up a list of things you will do if you have time before you leave your home. Without this list, you may panic and waste valuable time. Pin this list to your pack. Some things to do might include:

- Turn off water, gas, electricity - outside, if possible.
- Safeguard family photos and other keepsakes. Putting them in plastic bags in the refrigerator is a good place. Do the same with insurance policies, wills, and any other important documents.
- Make a list of items that you consider to be valuable, and what to do with them. In a panic, you may save the dish towels and not the silverware.
- Are there neighbors whose welfare you should check, especially those who are elderly or handicapped?

The list of items you will need is printed below.

72 Hour Emergency Gear List

Water

- Big soda bottle of water (3 ea.)
- Water purification tablets

Shelter

- Small tent, sleeping bag, cord
- WATERPROOF ground cloth, duct tape
- Canned heat, lighter, waxed matches
- Candle-in-a-can, flashlight, socks
- Pajamas (sweatsuit), stocking cap
- Change of clothes, poncho, knife

Hygiene and Medical

- Prescriptions, aspirin, other
- Small first aid kit with iodine
- Medical insurance and history information
- Big zip lock bags, toilet paper
- Low sugar granola, peanut butter

Other Important Items

- Note pad in zip lock bag with ball point pen
- Waterproof marker

- Important telephone numbers and addresses
- Credit cards, cash, quarters
- Home and auto insurance cards
- Identification cards and licenses (copies?)
- House and car keys

Personal Care Items

- Soap, wash cloth, hand towel
- Handkerchiefs
- Toothpaste, toothbrush, comb
- Razor, deodorant, lip balm
- Bug repellent, sun screen
- Knife, fork, spoon, can openers
- Small stainless steel bowl

Food

- You can live for 72 hours with just granola snacks and water. Food is too heavy to pack and carry in an emergency, so pack it separately, and take it only if you can. You need the other items more.

- Mike Greenfield, N9JIY
January 10, 1991



SSB

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FOR SALE: Radio Shack TRS-80 Model 100 portable, laptop computer, Cat. #26-3801. Built-in software incl. word processor, communications program, scheduler, address/phone# organizer, and BASIC. Battery (4 AA) or AC power (adapter incl.), full-size keyboard w/8 programmable function keys, built-in telephone modem, automatic dialer, RS-232C interface, 8K RAM (expandable to 16K), 8-line by 40-character adjustable LCD display, automatic power saver, low battery indicator, reset button. Incl. operating manual, svc. manual, briefcase-style carrying case, cables, 1 blank computer cassette & TRS-80 Model CCR-82 computer cassette recorder (Cat. #26-1209), battery (4 AA), AC power (adapter incl) or DC auto adapter w/low battery indicator. Suitable for use as a portable packet station. Asking \$200.00. Contact Mike Schoenfuss, N9GHZ, at (715) 223-3996 (leave a message), or write P.O. Box 401, Abbotsford, WI 54405, or leave packet message to N9GHZ @ KD9NV.

WANTED TO BORROW: An AC power line filter, for a period of approximately one month. The filter will be installed at the site of the W9QHI 2-meter repeater in Medford in an attempt to eliminate some interference to the repeater. If the filter solves the problem, there is a possibility that an offer would be made to buy it, if there is interest in selling it. Otherwise, it will be returned. We will also reimburse for the costs of shipping it to us. If you can help, contact: Taylor County Area Amateur Radio Club, c/o Mike Schoenfuss, N9GHZ, P.O. Box 401, Abbotsford, WI 54405, or phone (715) 223-3996 collect (leave a message), or leave packet message to N9GHZ @ KD9NV. Please do not send anything without first contacting us.

WANTED: One each of the following ARRL publications, either current or fairly current editions: (1) *Tune in the World with Ham Radio* and (2) either the *Technician Class License Manual* or the *Technician/General Class License Manual*. Needed for an indigent individual interested in Amateur Radio. If you have a copy of these publications lying around that you no longer need or use, please consider donating it. I will reimburse you for costs of shipping/postage. Please **do not** send anything without first contacting me - only one of each book is needed. Contact Mike Schoenfuss, N9GHZ, phone collect (715) 223-3996 (leave a message) or write P.O. Box 401, Abbotsford, WI 54405, or leave a packet message to N9GHZ @ KD9NV.

FOR SALE: Icom Model H-16 commercial model handheld: programmable 16-channel memory, 2 rubber duckie antennas, 2 battery packs, lapel microphone, rapid desk charger and slow charge wall charger. Does cover the 2-meter amateur band. Asking \$400.00 or best offer. Contact Leroy Markow, N9FZD, phone (715) 748-3868 weekdays after 3:30 p.m., or write 314 E. Lincoln St., Medford, WI 54451.

Taylor County Area Amateur Radio Club

Rolland Walty, W9LEE, Secretary

W4117 Highway 102 • Westboro, WI 54490

(Editor's note: The following minutes were not received in time to be included in March BSSS.)

Next meeting: March 14 at 7:00 p.m. in the Taylor County Courthouse Annex, corner of 2nd and Ogden, Medford, Wis.

A reminder: 1991 dues are due and payable. If you have not paid yours yet, please do so!

Minutes of February 14 Meeting

Meeting was called to order at 7:13 p.m. by Vice President KB9BLV. Members present were WD9FWP, N9GHZ, KE9LX, KB9BLV, N9FZD, and W9LEE.

Minutes of the Jan. 10 meeting were read and

approved. The treasurer's report was read and approved.

N9GHZ announced that a Novice license class under club sponsorship is planned for the Lublin-Thorp area, starting date and exact location to be named later.

Motion was passed authorizing the secretary to try to obtain one or two additional copies of the instruction manual for our autopatch controller.

N9GHZ informed us that this year's Tech Fair will be held April 26 and 27 at the Abbotsford High School, and he plans to have a ham station set up and on the air during the fair.

There being no further business, the meeting was adjourned at 7:50 p.m.

Rolland Walty, W9LEE, Secretary

Technology Fair Exhibit

The Abbotsford High School Technology Education Department, in conjunction with the VICA chapter at the high school, is presently organizing their third Technology Fair, to be held Saturday, April 27, from 9 a.m. to 4 p.m. Friday, the exhibits are closed to all but the students, with VICA chapters, technology education classes, and other groups of students from Abbotsford and surrounding communities' high schools attending. Saturday, the exhibits are open to the general public.

N9GHZ is busy putting together an Amateur Radio exhibit for this year's fair, as was done for the two previous fairs. Mike is looking for assistance from other area hams to help set up the exhibit, operate the stations, and assist the public and students with questions about Amateur Radio. Two-meter voice and packet radio stations will again be incorporated into the exhibit, and N9GHZ hopes to include a fast-scan Amateur Television demo as well. Mike would also like to see a working HF station as part of this year's exhibit, and is seeking assistance for that as well. Needed are: (1) an HF transceiver to use for the weekend, (2) assistance with selecting an antenna, antenna site, and putting up the antenna, and (3) operators for the HF station. If you can help, contact Mike at 223-3996 or 748-7279 (after 7 p.m.).

- Mike Schoenfuss, N9GHZ

Ⓢ KB9AMZ Serves Jail Time for Radio Activities Ⓢ

Jim Mnichowicz, KB9AMZ, of rural Lublin, recently spent some time behind bars as a result of his Amateur Radio activities, according to articles appearing in the 2/20/91 and 2/27/91 issues of the *Medford Star News* newspaper. Jim, known as "Slim" Jim Mnichowicz during his period of "criminal" activity, was wanted for "hamming" it up on his radios.

Jim was taking part in the Taylor County chapter of the American Cancer Society's "Jail 'n'

Bail" Fundraiser project, to raise funds for cancer research, and was a member of the Gilman "Fearsome Fifteen", who all did "jail time." The jail was located at Hauser's Sales and Manufacturing on Main Street in Gilman. Jim was the second-highest fund-raiser, bringing in \$571 in pledges, and has since been released from "jail." The activities took place on February 21.

- Mike Schoenfuss, N9GHZ

Ray Bohnert, W9QHI, Retires from WIGM Radio

According to an article which appeared in the 3/6/91 issue of the *Medford Star News* newspaper, Ray Bohnert, W9QHI, of Medford, has retired from his duties at Radio Station WIGM AM/FM in Medford. Ray first began working for WIGM 48 years ago. He plans to remain in Medford, but will winter in warmer areas. He and his wife also plan a retirement trip in the near future to Australia, New Zealand, and the Fiji Islands.

Ray came to Medford and began working at WIGM shortly after graduating from Chippewa Falls High School in 1943. He had worked at several other radio stations during his career, including WLBL (Auburndale), WEAU (Eau Claire), WDLB (Marshfield), WAXX (Chippewa Falls), WLDY (Ladysmith), and WFPF (Park Falls).

In 1955, Ray bought stock in WIGM with two other individuals, who have also since retired. With Ray's retirement, Brad Dahlvig has acquired his stock in the corporation to become sole owner of WIGM.

While at WIGM, Ray's duties included those of Chief Engineer. **Congratulations, Ray, on your retirement!**

- Mike Schoenfuss, N9GHZ

Amateur Radio Licensing Classes Being Held

Classes for preparation for the Novice and the new codeless Technician Amateur Radio licenses are

currently being held at Thorp, at the public library. N9GHZ is instructor for the current classes.

The first class was held on Saturday, March 9, with 12 students present, and prospects for up to four more by the next class. Students came from Abbotsford, Medford, Owen, Thorp, Gilman, Lublin, and Stanley. They include 3 youngsters, with the youngest being 10 years old. Also taking the course are two women. There are two couples in the class, and one father-and-son team. Also taking the course is N9IFA's son. N9IFA previously went through a club-sponsored license preparation course. It was also encouraging to see that, of the 12 at the first class, six stayed for the code portion of the class.

- Mike Schoenfuss, N9GHZ

Bits 'n' Pieces

• According to an item in the 2/20/91 issue of the *Medford Star News* newspaper, workmen from Superior Electric Co. of Appleton were busy adjusting a 69,000 volt switch near the Perkins/Whelen Street bridge in Medford the week of February 20. The company has apparently been in town ever since two new substations were built last summer for the Medford Electric Utility, converting the system's voltage. Anyone heard any change lately in the RFI to our 2-meter repeater????

• We apparently have a new ham living in the area. Allen Schnepf, N0GMJ, is supposed to be living in the Ogema area, and has been on 2-meter packet radio. Al is reported to have a Technician Class license, and moved here from Saint Peters, Missouri. Welcome to the area, Al!

- Mike Schoenfuss, N9GHZ

Thought for the Day

It is better to remain silent and be thought a fool, than to speak up and remove all doubt.

- Mike Schoenfuss, N9GHZ

Next Meeting

Next regular meeting: April 11 at 7 p.m. in the Taylor County Courthouse Annex, corner of 2nd

and Ogden, Medford, Wis.

The minutes of the March 14 meeting are on page 17, column 1.

Does your local library subscribe to Badger State Smoke Signals?

Hams Were Vital Link to Kuwait

Amateur Radio played an important - perhaps critical - role in providing information from inside Kuwait during its occupation by Iraq.

A lone amateur operator in Kuwait City, using equipment he managed to keep out of the hands of the Iraqis, has, since Aug. 3 - the day following the invasion - been sending computerized message traffic to amateur operators outside Kuwait.

Messages numbering in the thousands were received by amateurs in the United States, then forwarded to the U.S. government.

Messages with potentially useful intelligence information were used to confirm reports from other sources within Kuwait, and may sometimes have been the first and perhaps only source.

"The information was legitimate and authentic, no question," a State Department official said. "It was very useful."

"Much of the traffic concerned the atrocities being committed in Kuwait," the State Department said. "We also got word that the Iraqis had begun to move large numbers of Kuwaitis out of Kuwait and into Iraq just a few days before the coalition began its land assault."

Amateur Radio operators on several continents were involved in the effort, as well as one aboard the USS John F. Kennedy, stationed offshore in the Persian Gulf. Traffic with intelligence value coming through the Kennedy connection was used aboard ship, as well as forwarded through the radio system to North America.

The Kennedy connection was lost when ship-board radio restrictions were imposed for security reasons a few days before the coalition bombing began (on Jan. 16).

The group used AMTOR via the established APLINK bulletin board system, using several HF amateur bands; most were already well-established members of the APLINK network, which was designed for efficient message handling. (See *QST* for Jan., 1991, and Nov., 1990, for more information on APLINK.)

Amateurs in the Netherlands, Lebanon, and Guatemala, as well as in the U.S., have been mentioned as playing crucial roles.

The identity of the Kuwaiti amateur (code-named "Abdul") has been a closely guarded secret; during the Iraqi occupation his life could have been at great risk. Even following the coalition liberation of Kuwait, "Abdul" feared for the safety of several of his relatives still missing and thought to be in the hands of the Iraqis.

And even the Department of State did not know his identity or, for that matter, precisely how the information was reaching the U.S.

"Had the word got out, we feared the Iraqis might kill every licensed amateur in Kuwait," said Frank Moore, WA1URA/9, of Ft. Wayne, Indiana, one of the U.S. amateurs involved.

The fear for "Abdul's" safety led two amateurs in the chain, both of whom knew him personally, to ask personal questions only Abdul would know the answers to. His replies "told us he was not operating with a gun at his head," Moore said.

Portions of this story "broke" on March 3, in *The Indianapolis Star*, although Amateur Radio was not mentioned, again to protect "Abdul."

Also playing important roles in this operation were Clark Constant, W9CD; Scott Ward, N5DST (the USS Kennedy radio operator); Bob Foster, WB7QWG/9; John Troost, TG9VT; and PA0QRS.

- *The ARRL Letter*, March 8, 1991

New Repeater Directory Out Soon

The 1991-92 ARRL Repeater Directory is on the press, with more than 19,000 listings, including expanded packet, beacon, and special service club entries. The Directory will first be available at the 1991 Dayton HamVention.

- *The ARRL Letter*, 3/8/91

Elektronik Specialties, Ink.

April Sale • April Sale • April Sale • April Sale • April Sale

Last April's sale was a sellout, so we now offer more specials that no Amateur Radio station is complete without. These items are available in limited quantities on a first-come, first-served basis!

New Antenna Special

An end-fed dipole, excellent where space is limited! We're sorry, but gain figures are not available at this time. State band desired.

Priced to sell at just 99 dinars

Latest in Tubistors!

Solid state replacement for the popular 3-500Z. No more worries about inrush current and wasted filament dissipation. Runs cool with newly-designed birdcage blower. Available in late May.

Get your order in now at 200 yen

Transformer Special

For those who want to run their linear amplifiers on 220 volts, but don't have 220 volt wiring available in the shack, this heavy-duty transformer has a Hyposilly core and will handle 2 KW. Primary tapped at 110, 115, and 120 volts to allow for line losses.

*UPS shippable in most states.
Call for price.*

New Item: Assorted PIN Diodes

This assortment includes some hard-to-find varieties, such as hairpins, hat pins, and a few

wristpins. Each package contains a reusable pin cushion.

Low priced at 3 kroner

Antenna Special

Latest design makes this rotatable vertical a must for every DXer! Its low angle of radiation lets you pinpoint the correct heading for the best signal. It turns with any TV rotor.

*Quantity Limited:
Order now at only 237 rubles P.P.*

Attention Computer Users!

New 4-inch floppy disks, for use with soft drives. Fills the gap between 3 1/2" and 5 1/4" disks. Assortment of single- and double-sided disks make this a must at our low, low price!

Pkg. of 25: only 44 crowns

Another New Antenna Design

This horizontally-polarized omni-directional dipole has a gain of 7 db, with very broadband coverage over the entire 2-meter band. Models for other VHF bands available soon. Complete with rotor mounting bracket.

Buy now and save at just 48 pfennig

Elektronik Specialties, Ink. offers a unique line of products which are not found in ordinary suppliers' stocks. Our purchasing agent and ad copy writer, Harv Hamer, K9YHO, is always finding new items to tempt and delight you. Be sure to watch for our ads in future issues!

Remember: When remitting payment for your order (especially foreign customers), please consult the *Wall Street Journal* for present exchange values of currency. When in doubt, send extra and we may credit your account. Check the latest issue of your favorite Ham magazine for our address, as we move from time to time. We still do not have an 800 telephone number; our present number is 27745-179.

Despite rumors to the contrary, we are NOT affiliated with Larsen E. Rapp Enterprises.

Northern Wisconsin Radio Club

Steve Hart, KA9OMC, Secretary

- Since 1923 -

Route 1, Box 54 • Knapp, WI 54749



for his help in problem solving and as an Elmer who always had a tube or component you needed for a repair. He will also be remembered for his participation in the Saturday morning coffee clutch, and for his engineering of the Menomonie 01/61 repeater.

NWRC Secretary/Treasurer

Steve Hart, KA9OMC

Greetings, NWRC Members and Guests.

The last meeting of the NWRC was held February 26 at the American Legion Post on Water Street in Eau Claire.

This was the annual club-sponsored amateur and electronics auction. Attendance was about 80 people with a dozen tables of equipment. W9QAH, Col. Bruce Walthers, conducted the sale, while KE9RW, President Steve, recorded the bids on the computer. The club raised the account balance to \$383.13, after expenses. Our thanks to all for their help and participation.

The next meeting of NWRC will be March 26. The program will be by Dunn County Emergency

Government Director N9KMZ, Thomas Johnson. The April 23 meeting will be the video "More Than Radios", sponsored by Icom. Both activities will meet at 7:30 p.m. at the Peppermill Restaurant in the Thunderbird Mall, Menomonie.

We regret the recent loss of our amateur friend and long-time member W2GFK, Jerome Stewart. Jerry had earned the title "resident engineer" around Menomonie since his retirement from NBC in New York. Most local amateurs will remember Jerome

Please Tell 'em So!

The many volunteer authors, photographers, and cartoonists whose work you enjoy in *Badger State Smoke Signals* would like to hear from readers. Please take time to tell them "thank you" for all of their hard work!

Taylor County Area Amateur Radio Club

Minutes of March 14 Meeting

Meeting was called to order at 7:16 p.m. by President N9GEN. Attending were WD9FWP, KB9BLV, KA9UXN, N9GEN, KE9LX, N9FZD and guest, W9LEE and WA9ZCO.

Minutes of Feb. 14 meeting read and approved. Treasurer's report showed a \$20 increase.

Motion to reimburse W9LEE for repairs to repeater pre-amp made by Spectrum Communications was approved.

Motion approved to have the club sponsor N9GHZ's ham radio exhibit at the Abbotsford Tech Fair in April.

N9GHZ was authorized to negotiate for a trial of Motorola equipment at the repeater site on a no-obligation basis, as per a previous offer.

N9FZD asked for two volunteer operators to help with communications for a bike race May 18.

Motion was approved to try a repeater at KE9LX's QTH to see if interference problem is present there.

There being no other business, meeting was adjourned at 8:33 p.m.

Rolland Walty, W9LEE, Secretary

Where's the Beam?

Unobtrusive DX Gain Antennas for 80 thru 10 • Easily hidden • Install Fast • Fixed or Portable •

There's a 20 meter antenna with real DX Punch hidden in this picture. You can't see it, and your neighbors can't either. But it works DX barefoot anyway. How about a low profile 80/40/30 tri-band? Or a 2 element monobander for the attic? All easily fit the pocketbook—Priced \$29 to \$99.

Work DX without telling the neighbors

Airmail Infopack \$1 AntennasWest
Box 50062-R, Provo, UT 84605 (801) 373-8425



Tri-County Amateur Radio Club
Presents:

SWAPFEST 1991

to be held on

Saturday, May 11

AT

Jefferson County Fairgrounds Activity Center

Hwy. 18 West, Jefferson, WI
from 8:00 A.M. until 2:00 P.M.

Weather permitting, an outdoor sales area is planned but not finalized. Please contact us at the address below a week before for further information. Indoor space requires a reservation. Bring your own outdoor tables. Setup will be in a reserved outdoor vending area. Commercial sales area indoors. Electricity available indoors only.

A SPECIAL NOTE TO VENDORS:

Special needs can be handled if we are contacted in advance.

Plate Lunches and Beverage provided by Jefferson County 4-H. HANDICAP ACCESSIBLE!

TALK IN ON THE 145.49 REPEATER

ADMISSION: \$2.50 Advance — \$3.00 At The Door

4-Foot Table Space (indoor only) — \$3.00 • RESERVE YOUR SPACE EARLY!

SEND YOUR SASE TO:

TCARC, W9MQB

213 Frederick, Fort Atkinson, WI 53538

PHONE: 563-6381 after 5 p.m. please.

Racine Megacycle Club

Arne Moxness, KA9ZPY, Secretary

3345 Newman Road • Racine, WI 53406

February 2, 1991

Meeting was started at 7:30 p.m. by Vice President Brian, WD9FRH, who introduced the speaker for the evening, Ron Burghaus. Ron held an hour-long program about the dangers of electrical power lines. He brought a miniature display, consisting of a power line system, a house, car, and equipment, which allowed him to show shorting of power lines to buildings, antennas, cars, and people. He also brought a video, which showed in detail what not to do. The program was very interesting, and reminded us of the dangers of downed power lines which are not always so apparent. He also answered several questions.

Present at the meeting were 24 persons.

Brian asked for a motion that the minutes now published monthly in the *Badger State Smoke Signals* be approved. Motion carried.

Treasurer Dave, WB9ZIO, gave a financial report. Present balance is \$448.92.

Cheryl, WS9P, reminded us about the upcoming ham dinner.

Bob, W0WLN, encouraged us all to write to our government representatives about keeping the

present ham bands.

Brian, WD9FRH, thanked everyone who participated in the Klondyke Derby at Johnson Park the previous Saturday.

Bill, W9OVC, gave a report on the very successful Klondyke Derby event, which involved scouts from all over. Organizer of the Ham involvement at the event was President Dave, WB9USI.

Dan, KA9OIL, gave a report from the last Fox Hunt, which was very difficult, but very successful, with nine teams competing.

Cheryl, WS9P, requested that the club help her students at Gifford J.H.S. in May with a radio-related event. Steve, K9ZL, will help.

Dick, W5ONL, told about the upcoming March tenth QSO Party.

Hank, WD9FCQ, turned over to the club a number of Navy-sponsored American flag decals.

The club's P.O. Box number is 3 (three), and the box will be monitored by Dave, WB9ZIO.

The meeting was adjourned at 9:15 p.m.

Respectfully submitted:

Arne, KA9ZPY, Club Secretary

March 11, 1991

The March meeting of the Megacycle Club was held at the city safety building. The meeting, which was open to the public, started at 7:00 PM.

The program, by Mr. John Haas, was sponsored by the Racine County Office Of Emergency Government. Topics included tornado spotting, reporting of severe weather and severe weather safety. Lloyd, WB9RGO, provided background on the role of the A.R.E.S. in weather spotting.

The club meeting was started at 8:45 PM by President Dave WB9USI. The minutes, which were distributed along with the latest Ham calendar, were approved.

Dave WB9ZIO gave a report on the treasury. The current balance is \$382.34.

Old Business

Rev. Jim, WA0PFV, asked about the Smoke Signal. We have paid for five months and there are now 34 paid members.

Ray Hoffman, WB9JYR: Silent Key

Continued from page 13

tically promoted trips to the Yellow Thunder Amateur Radio Club's hamfests at Lake Delton and,

later, simply as a WARAC outing.

His other interests included being a handyman, a painter, a carpenter, and a pilot.

Ray is survived by his wife Alice and two sons.

- Photo and information
via Dave Knaus, WA9POV

Racine Megacycle Club Calendar of Events

April

- 5 Fox Hunt
- 6 ARRL Testing at Red Cross
- 7 Swapfest - Madison
- 7 Kenosha Ham Breakfast
- 8 Megacycle Meeting
- 14 QCWA Meeting - Potluck
- 30 Lakeshore Repeater Ass'n Meeting

May

- 3 Fox Hunt
- 4 Swapfest - Cedarburg
- 4 ARRL Testing at Red Cross
- 5 Kenosha Ham Breakfast
- 11 Swapfest - Manitowoc
- 13 Megacycle Meeting
- 16 Pony Club - Waukesha
- 19 Swapfest - Peotone, Illinois
- 20 QCWA Meeting
- 31 Fox Hunt

June

- 1 ARRL Testing at Red Cross
- 10 Megacycle Meeting
- 16 Swapfest - Stevens Point
- 28 Fox Hunt

July

- 6 Swapfest - South Milwaukee
- 8 Megacycle Meeting
- 14 Swapfest - Downers Grove
- 26 Fox Hunt
- 27 Swapfest - Eau Claire
- 30 Lakeshore Repeater Ass'n Meeting

August

- 12 Megacycle Meeting
- 18 QCWA Picnic
- 23 Fox Hunt

September

- 1 Kenosha Ham Breakfast
- 7 ARRL Testing at Red Cross
- 8 Swapfest at Joliet
- 9 Megacycle Meeting
- 16 QCWA Meeting
- 20 Fox Hunt

Megacycle Meetings start at 7:30 p.m.
Lakeshore meetings start at 7:30 p.m.
Fox Hunts start at 7:00 p.m.
Kenosha breakfasts start at 7:30 a.m.

Racine area Hams meet for breakfast every Monday, Wednesday and Friday at 8 a.m. at Reflections, and on Saturdays at 8 a.m. at Heritage.

- Arne Moxness, KA9ZPY

Racine Megacycle Club Photo Album

Photos by Steve Bellgraph/K9ZL (except as noted)

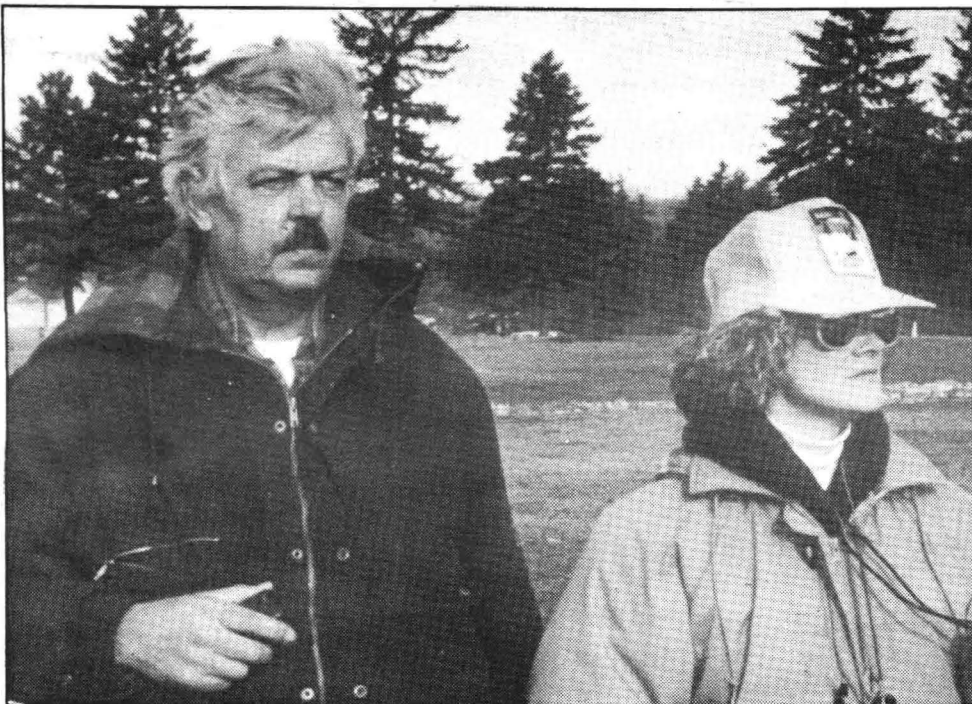


This time of the year, in the midst of cold weather, we sometimes relive with pictures the pleasures of the past summer. One such event was the YLISSB Convention, when local hams enjoyed a visit by Aki Bromh, SM4EAC, and his wife Margret, a Novice, from Falun, Sweden. They are shown here in front center, surrounded left to right by Lloyd Gorsiski, WB9RGO; Jim McChesney, WA0PFV (the host); Dave Voss, WB9USI; and Bob Jensen, W0WLN. (This photo was taken by WA0PFV's XYL.)

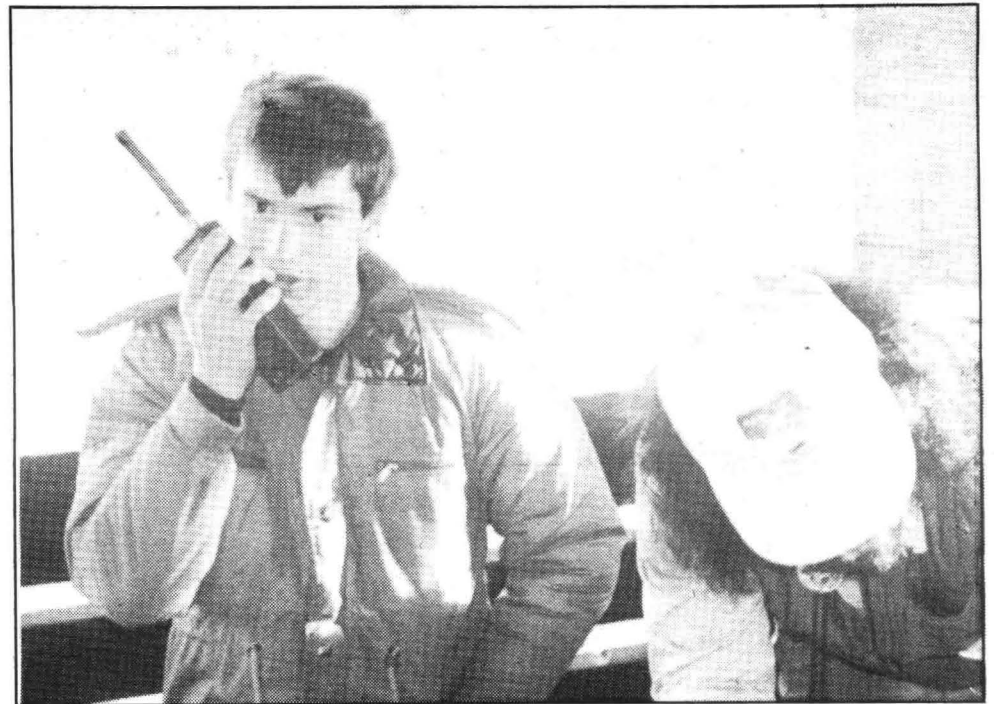


On the evening of February 16, hams from Racine, Kenosha, and Milwaukee gathered for the annual Racine area Ham dinner. Among those attending were Dan Miller, KA9OIL, and his wife, Gail, KE9SW, pictured above. Dan was presented the RMC Ham of the Year Award for his many contributions to ham activities in the Racine area. Dan is president of the Lakeshore Repeater Association, and past president of the Racine Megacycle Club. He has put in many hours working with newcomers to Amateur Radio by holding classes. Dan organizes and controls activities for the Breeze Bike Ride, Pony Club activities, and Transmitter Hunts, as well as taking part in many of the other sporting runs in the Racine area.

No doubt about it - Dan has earned this award!



On February 9, Racine area hams provided communications for the Boy Scout Klondyke Derby. Normally, we feel good when all we have to do is provide information on the progress of the activities. This year, we were on hand to call for an ambulance when one of the Scouts suffered a broken wrist and arm. We also made a phone patch to the parents at a time when normal park



telephones are disconnected for the winter.

In the photo above at left, Jim Levandowski, KB9CCY, stands by a Scout worker at one of the activities.

In the photo at right, John, N9KEX, stands by at Scout Activity Headquarters, while workers attend to paperwork.

Amateur Radio News Briefs

- The FCC has issued a new Fact Sheet No. 201, with updated information about Amateur Radio. Reflecting the new code-free Technician class license, the handout says "Although a person may

initially qualify for any of the five grades of operator class, either the Technician or the Novice class operator class is the ideal way to become involved quickly in amateur radio."

- The first run of the S.F.B. Morse Code Proficiency Certificate program will be April 27,

from W1AW. The complete story is on page 54 of April QST.

- The ARRL Letter, 3/8/91

Reading someone else's copy of BSSS? Subscribe today! Use the form on page 5.

Yellow Thunder Amateur Radio Club

K9ODK
WB9FDZ

Duane Grotophorst, KA9HKL, Secretary

E5767 South Line Road • Loganville, WI 53943



The YTARC meets in the Baraboo Civic Center, 2nd and Ash Streets, at 7:30 p.m. Upcoming meeting dates are:

Tuesday, April 16	Room 14
Wednesday, May 15	Room 14

Minutes of the March, 1991, YTARC Meeting

The meeting was called to order at 7:45 p.m. by Vice President Steve Schwoegler, WB9RNL. The following members and guests were present:

Harold Reif, KA9YQP	Baraboo
Anne Klinkner	Sauk City
Bill Klinkner	Sauk City
Jim Pugh, W3VZJ	Sauk City
Joe Rowland	Portage
Duane Grotophorst, KA9HKL	Loganville
Steve Schwoegler, WB9RNL	Wis. Dells
Dennis Sweeney	Portage
Steven Steele, KB9ESD	Portage
Joey Sweeney, KB9ERR	Portage
Jim Decker, WB9UQT	Baraboo
Harry Westlund, K9EHJ	Baraboo
Harry Mayland, K9FFT	Baraboo

Minutes of the February meeting were approved as published in the BSSS.

A round of applause for Bill Klinkner for his new Technician license. He should have his call sign by

mid-April.

The treasurer's report was approved.

Old Business

Discussion was held about the upcoming Novice/Technician classes. Dennis Sweeney, and Steve, WB9RNL, are having difficulty in getting a Portage location lined up. A decision will be made by March 21 on whether or not to have classes at the Baraboo Civic Center. The tentative dates for classes are now to start on April 9, and run Tuesdays and Thursdays through May 23.

I reported on a letter we received from the Wisconsin Division of Emergency Government regarding RACES certification and plan update. Bill Klinkner will discuss some ideas with Tim Stieve of the Sauk County Emergency Government.

I forwarded a suggestion from Jim Romelfanger, K9ZZ, on whether YTARC should sponsor the WNA Picnic or not. A discussion will be had at the April meeting.

Field Day was brought up; a reminder that it's only three months away.

The program for next month will be the video "More Than Radios".

Buck nite winner was Gary Pratt, WB9ECO, who was not present.

Meeting adjourned at 8:45.

Duane Grotophorst, Secretary

Shuttle Mission Set for April 4

An all-ham shuttle crew will launch on Shuttle Atlantis on April 4 at 8:20 a.m. CST.

Packet will be in operation beginning April 5 (or Day 2 of flight) on 145.51 (shuttle transmit/ground receive), with 144.91 ground station transmit frequency to shuttle. Call sign used for the mission will be KB5AWP.

Randon voice QSOs will be made on 145.55 (shuttle transmit/ground receive), with 144.95 ground station transmit frequency to shuttle. SSTV

shuttle transmit frequency will be 145.55.


Goddard ARC will retransmit all audio (and Keplerian tracking data) on 3.860, 7.185, 14.295, and 21.395 MHz. NASA select shuttle video will be transmitted on Satcom 2 transponder 13.

(It is understood that the shuttle crew will attempt a QSO with U2MIR aboard the Soviet space station MIR. - Editor).

- Steve Loeffler, WB9ZRE




Portage, WI



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LOW PRICES**

South-Central Skywarn Net

(Continued from page 9)

hams should also give their location relative to a well-known geographic landmark, e.g. "I-90 at the Wisconsin River."

Activity reported to the Net Control is simultaneously monitored by a liaison station located at the National Weather Service (NWS) office in Madison. The liaison apprises the NWS radar operators of these surface reports, allowing more precise interpretation of the radar images. In return, the liaison informs the net of rapidly changing weather conditions and statements provided by the NWS.

The net will activate under either of 2 status levels during severe weather. Activation under FULL ALERT status will occur whenever a severe thunderstorm or tornado warning is issued for any portion of south-central Wisconsin. **During a full alert activation, only traffic related to the severe weather or other emergency traffic will be allowed, and all communication will pass through the net control.**

Activation under a STAND-BY status may occur when severe weather is imminent, but no warnings have yet been issued. While in stand-by status, the net control will allow routine informal traffic; however, stations should pause frequently to allow the net control to inform the net of sudden changes in weather conditions.

In the past, I have held an informal net on Monday evenings. This year, I will instead dispense needed information via the ARES Net (146.34-/146.94) and the MARA Net (147.75/147.15), held on Wednesday evenings at 8:30 and 9:00 respectively.

Finally, I would like to thank those who have participated in the weather net in past years. The net provides not only needed information to the NWS, but also information which is appreciated by the recreationists, travelers, and residents who monitor the net. See you on the air. 73 and 88. ■

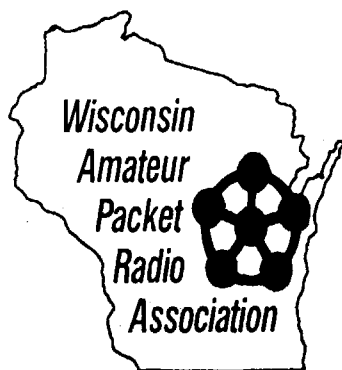
FCC-Issued Call Sign Update

The following is a list of the FCC's most recently issued call signs, as of February, 1991.

District	Group A Extra	Group B Adv.	Group C Tech/Gen	Group D Novice
0	AA0DK	KF0PH	N0MWW	KB0IHL
1	WO1M	KC1ZG	N1IJV	KA1YFA
2	AA2DD	KE2ZF	N2LPZ	KB2MDB
3	WJ3L	KD3VN	N3IVB	KA3YKP
4	AC4CL	KN4VS	**	KC4VVN
5	AA5WV	KI5NF	N5RZI	KB5OUF
6	AB6AP	KK6VV	**	KC6RJT
7	AA7HH	KG7MK	N7QEI	KB7MPU
8	AA8DC	KF8LE	N8NIS	KB8LTE
9	WY9R	KF9BG	N9KMA	KB9GFA
Guam	KH2O	AH2CI	KH2EW	WH2AMU
Hawaii	**	AH6KW	NH6YH	WH6CJY
Alaska	**	AL7MR	NL7VY	WL7CAJ
USVI	NP2J	KP2BV	NP2EC	WP2AHF
PR	**	KP4RM	**	WP4JUC

** All call signs in this group have been assigned in this area.

- The ARRL Letter, 3/8/91



THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association (WAPR)

c/o Carl Schumacher, N9BYS

7740 Evergreen Terrace, Burlington, WI 53106

Steve Loeffler, WB9ZRE, Editor, 123 W. Oshkosh St., Ripon, WI 54971

WB9TYT Injured in Fall.....

Saturday, 16 March 91, Dan Bolander came to a rather abrupt stop after the 25' ladder he was working on became unstable. Dan has suffered a fracture of the Fibula and Tibia of the right leg, as well as lower back injuries.

He is currently at home with the afflicted leg casted, and well protected against pain. .. He is physically one floor removed from his BBS and has STRICT orders NOT to place weight on the injured leg - - and has NO plans to move the entire WB9TYT operation to the first floor of the house.

All mail for him should be addressed to WB9TYT @ KC9BK.WI.USA.NA and it will be short-stopped here and printed out for his perusal within 24 hours.

His 20 meter port will continue to operate as per usual, as well as his BBS, but with minimal sysop (me) intervention and direction for at least the next two weeks - - possibly longer...

Flowers and "get-well" cards would be welcomed - - but NO CANDY, PLEASE - - the fractures would only have been 50% of what they were if Dan were 50% of what he is....

Jerry - KC9BK @ KC9BK.WI.USA.NA

Digicom Version 4.06 Released.....

Dan - KA9WFN has announced that Digicom version 4.06 is now available in the United States. Initial U.S. testing has been done by Dan and KA9UYL with good results.

If you want a copy of this latest version, send a 5 1/4" pre-formatted floppy disk with return postage to:-

Dan Bickerstaff - KA9WFN
6757 E. Hopewell Rd.
Avilla, In. 46710

Yaesu FT-736R

Pac-Comm PSK-1 Pacsat Hook-Up.....

I have had difficulty accessing the Pacsats and FO-20 using a Yaesu FT-736R and the Pac-Comm PSK-1. Through research, calls to Pac-Comm and some experimenting I have developed this solution. It works for me and should for other 736 users.

Please remember that any mods done to your radio are at your own risk and I assume no responsibility

guarantee of success of this mod. I only know it worked for me.

This hook up scheme wires the TX audio from

the PSK-1 directly to the FM varactor, similarly to what is published in the Pac-Comm PSK-1 owners manual. The difference is that this works.

I could not get the hook-up as described in the owners manual to work. The main reason follows.

The PSK-1 manual (or at least the one I have) lists JP-4 as the audio level jumper. This is incorrect, it is JP-5 and JP-5 must be closed by the jumper to be used in this mod. This jumper raises the amount of audio output quite a bit but still not enough for my taste.

The suggestion in the manual to hook the audio in at the R32 will not work. You are feeding thru a 10K resistor and cutting the audio down again. The best place to hook in is to CAREFULLY solder the PSK-1 audio lead to the right hand side of R33. R33 is a 15K resistor to the left of R32 and between two transistors and a cap.

Be VERY careful and use a long nosed soldering iron or pencil as you are very close to several other components. Again you solder to the right hand end (with the front of the radio to you) of R33. The ground and shield of the audio cable can be connected to the shield enclosure near by.

Run the cable out of the radio and hook into the PSK-1.

Now you must make a couple of mods to the PSK-1. Open it up and find R40. It is a 5K pot that adjust the TX audio output. It is the one that can be adjusted from the back panel of the PSK-1. Change this to a 10K pot of the same type or a 20K will work if you don't have a 10K (I used a 20K). Next find R41 and change it to a 14 or 15K resistor. Pac-Comm suggested that on R41 do not use a 13K or less resistor.

All of this will increase the TX audio output to where you can modulate the 736 at 3 to 3.5 KHZ deviation with no problem.

As to setting the deviation I suggest you find some one that has a service monitor and set it at 3 KHZ. I guess you could set it by ear, but I don't recommend that.

The 736 apparently needs quite a bit of audio to drive the varactor directly in this manner. So, this is what I had to do. Prior to this I had great trouble accessing the Pacsats and FO-20 cause of the impure tones after the filters in the radio hammered on them.

I can now access FO-20 easily and I hope to logon to the Pacsats as soon as they come back up.

I get the RX audio from the data jack on the back of the 736 as per the 736 manual.

I hope this will help someone who also has pulled their hair out on this and logging onto the little birds.

Paul Gilbert - KE5ZW

MSYS Forwarding Thru KA-Nodes.....

A few days ago, Larry - WD9ESU asked me how to set-up the MSYSFWD.DEF file in MSYS to allow forwarding thru a KA-node. I sent him a couple of examples I had on file that proved to be incorrect. Larry, however, rediscovered the correct format and I list it here for future reference:

```
-----
F1 WB9QBA-3 (forward via port 1 to WB9QBA-3)
@WB9PCI-2 (connect to KA-node WB9PCI-2)
.C WB9QBA-3 (tell node to connect to WB9QBA-3)
+###LINK (if "###LINK", then connect made)
?Busy (if "Busy", then connect aborted)
?Failure (if "Failure", then connect aborted)
WB9QBA
-----
```

MSYS Reverse-Forwarding to Kantronics INCs.....

Forwarding and reverse-forwarding to Kantronics PBBSSs are an easy matter for MSYS. All Kantronics INCs with PBBSS firmware can accept forwarding from full-featured, forwarding BBSs. Kantronics INCs with reverse-forwarding capacity (version 3.0 and later firmware) can have their PBBSS 'polled' for outgoing messages. MSYS SYSOPS need to set their MSYSFWD.DEF along the following format:

```
-----
PO KE9EJ-1 (P=poll, F=forward)
@WIGLK
.C KE9EJ-1
#20
+to
?u
?DONE (required to disconnect from PBBSS)
KE9EJ
-----
```

Not all SYSOPs will allow reverse/forwarding from their systems. This is usually dependent on the amount of traffic the BBS handles - high traffic areas tax the fastest computers, without having the additional overhead of PBBSS forwarding.

Wrong I.C. in MFJ-1278.....

Several reports have been received that an incorrect I.C. was assembled into an unknown quantity of MFJ-1278 INCs. The I.C. may not affect packet operations, but, problems have been noted when using these units in SSTV mode.

The chip in question is U9 and should bear

the marking 74hc14. The incorrect chip is marked as 74hct14 (note the 't'). If you have a unit with the wrong chip installed, you can contact MFJ for a free replacement chip (you will have to swap the chips).

IMPROVED NODE ON 145.03

KA-NODE BVD has recently been upgraded. BVD serves South Central Wisconsin on 145.03 MHz. The antenna is now on a commercial tower just outside of Beaver Dam. It is at about 250 feet above average terrain. The base of the tower is about 950 feet above sea level. The transmitter is currently putting out 10 watts into low loss double shielded coax. This KA-NODE is brought to you by KB9GJD (Bruce) and KA9JDE (Brad). You may also connect to the Rock River Radio Club Mailbox at this location (KA9JDE-1). THIS IS NOT A FULL SERVICE BBS, which are not permitted on 145.03. This is simply a 20k mailbox. Signal reports would be appreciated. Send them to either Brad or Bruce on the RRRC mailbox, OR to KA9JDE @ WA9KEC, OR to KB9GJD @ WB9ZRE. Best of 73s!

THE TEST POINT

(continued from page 4)

ARRL/VEC examinations require a check for \$5.25 payable to "ARRL/VEC".

The FCC now requires applicants to show their original Amateur license to the VEC. A copy of your license must be attached to your FCC form 610. You will also be required to have a photo ID, or other acceptable identification.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

MILWAUKEE RADIO AMATEURS' CLUB MRAC/VEC

1991 examination dates:

WEDNESDAY: April 10, May 1, June 5, September 4, October 2, November 6, and December 4, 1991

SATURDAY: June 22, September 28, October 26, and November 23, 1991.

WEDNESDAY DATES: 7:00 pm to 10:00 pm at Wauwatosa East High School, North 74th and Milwaukee Avenue. Enter through the southmost entrance on 74th Street. Go to room 256 on the 2nd floor. Please arrive promptly, so testing can be completed before 10:00 p.m.

SATURDAY DATES: 9:00 am to 12:00 noon at the Wauwatosa Savings and Loan, 7500 West State St. (Lower level) Please arrive promptly so testing can be completed by 12:00 noon.

Bring along your original license and two (2) good quality photocopies, plus two forms of identification, such a driver's license, etc. Also required are a pen and \$5.00 for the exam fee. WALK-INS are welcome. To register in advance, use a post card: print the grade of license you are applying for, and your name, address, and telephone number. Send the card to MRAC/VEC, c/o Jack Krause, W9JK, 1737 North 116th Street, Wauwatosa, WI 53226, or to Ed Seruga, KE9JJ, 3840 South 43rd Street #21, Milwaukee, WI 53220. Telephones: (414) 774-6999 or (414) 545-6299.

BADGER EXAMINERS (BE) - MILWAUKEE

May 4 - Ozaukee Swapfest (Cedarburg)

Oct. 13. - KMRA Swapfest (Waukesha)

Unless otherwise noted, examinations are administered beginning at 1:00 p.m. to 3:30 p.m. at St. Nicholas Church basement, 5345 N. Green Bay Ave. (2 1/2 blocks south of Silver Spring), Milwaukee. Walkins are welcome. To register in advance, send a post card with your name, test or tests you wish to take, date you wish to take., your call sign, address and telephone number to Badger Examiners, Gary J. Sharbuno, WI9M, 5119 W. Willow Rd., Brown Deer, WI 53223. Telephone (414) 355-0237.

MADISON, WISCONSIN (ARRL/VEC)

April 6, 1991

Exams will be held at Fire Station #6, on Badger Rd. (Just off South Park - Enter East door.) The test sessions will begin promptly at 8:00 a.m. Subsequent exams will occur in the fall of 1991. To be scheduled.

EAU CLAIRE, WISCONSIN

1991 dates: Apr. 13, Jul. 27, & Oct. 12

Exams given at the UW/EC Maintenance/Central Stores Building, except for July 27, which will be at the 4-H Fairgrounds Hamfest site. Contact: Jim Ley, NX9F, (715) 235-3998 (H); (715) 232-1397 (O).

FOND DU LAC, WI - (W5YI-VEC)

April 27, 1991

Exams will be held at the American Red Cross Building, 272 N. Main St., Fond du Lac, WI. The test session will begin promptly at 1:00 pm. Contact: Gary Pelletier, KA9QOT, 253 Tower Dr., Sun Prairie, WI 53590. (608) 837-3433.

KAUKAUNA, WI

Held at the FOXCITIES HAMFEST 91, Starlite Club on Hwy. 55, North of Kaukauna. Exams begin at 9:00 a.m. Contact Larry, KD9IA at (414) 788-3823, or Don, NB9J at (414) 766-3886.

STEVENS POINT, WI

June 16, 1991

Held in conjunction with the CWRA annual swapfest at the UWSP University Center. Walk-ins accepted, but preregistration preferred. Contact: Joe Larson, N9JW at (715) 344-1182.

MENOMONIE WI - ARRL/VEC

Saturdays: Nov. 2, 1991 and Mar. 28 and Nov. 7, 1992.

The Northern Wisconsin Radio Club administers exams from 9 to 11:30 a.m. at the Wisconsin Credit Union Building, Lower level conference room, 444 S. Broadway, Menomonie, WI. Use front entrance of building. Walkins are accepted only to extent of available exam materials. Contact: Dr. Tom King, WF9I, VE Team Liaison, 4817 Sierra Dr., Eau Claire, WI 54701. (715) 836-3980 or (715) 834-7777.

MARSHFIELD, WI (ARRL/VEC)

Thursday, April 25, 1991, 7PM

Technician only

Saturday, April 27, 1991, 9AM

All class licenses

Location: St. Joseph's Hospital, School of Nursing, room 124, St. Joseph Ave., Marshfield, WI.

Preregistration preferred Contact: Robert McDaniel, WA9K, 904 W. Blodgett, Marshfield, WI 54449. (715) 389-2256.

APPLETON, WI (ARRL/VEC)

June 8, and Aug. 11, 1991

Sponsored by the Fox Cities ARC. All exams are held at Madison Jr. High School, 2020 S. Carpenter St., Appleton, WI. Contact: KD9IA, (414) 788-3823

ONALASKA, WI

May 20, 1991 and November 11, 1991

Sponsored by the Riverland ARC. Held at the Onalaska Community Center, 515 Quincy St. All exams start at 7:00 pm. Preregistration recommended. Contact: Rick Williams KV9U, 524 Troy St., Onalaska, WI 54650. (608) 783-8028. or Dick Low, KOKYB, 1520 Nakomis Ave., La Crosse, WI 54603. (608) 784-9176 (After Apr. 5th.)

MANITOWOC, WI (ARRL/VEC)

May 11, 1991

Sponsored by the Fox Cities ARC. Exams are held at Silver Lake College, West Highway 151, Manitowoc, WI. Contact: KD9IA, (414) 788-3823

RACINE, WISCONSIN - ARRL/VEC

Monthly - first Saturday, except

January, July, and August.

Exams are given at 9:00 a.m. at the Red Cross Building, 4521 Taylor Avenue, Racine. Walkins are permitted. Inquiries and registrations should be directed to William Firchow, Jr., NW9P, 1912 27th Street, Kenosha, WI 53140, telephone (414) 658-8390.

DUBUQUE, IOWA - ARRL/VEC

Exam dates for 1991 are: June 8, September 7, and December 7.

The Great River Amateur Radio Club VEs are now field stocked, which means retests can be given immediately.

Exams are held at 9:00 a.m. at the Central Fire Station, 9th and Central in Dubuque. Use the basement entrance on 9th Street. For more info, contact Mike Jozefowicz, NSOU, 2735 Hickory Hill, Dubuque IA 52001, or call Mike at (319) 582-8563. Talkins are on the 147.84/24 and 147.63/03 repeaters. -- (Thanks Art Evans, KA9KLZ)

TOMAHAWK, WI

Last Saturday of every month. Jan. thru Oct.

Tomahawk Volunteer Examiners (ARRL/VEC). Tomahawk, WI. No preregistration required, but appointment would be appreciated. Registration at 8:30 a.m. and testings starts at 9:00 a.m. For location or other information, inquire on 145.43 MHz. repeater or contact: Greg Garner, WA9W, 4088 Highway 51, Harshaw, WI 54529. Telephone (715) 453-7096.

LOVES PARK, IL

Third Saturday of every month. Northern Illinois Volunteer Examiners (DeVry VEC). Held at North Suburban District Library, 6340 North Second St. (Hwy. 251), Loves Park, IL. Contact: Dennis G. Eksten, W9SS, 5006 N. Second St., Loves Park, IL 61111. (815) 877-6768.

MINNESOTA TESTS

Locations and contacts:

St. Paul Radio Club (SPRC)
St. Lukes School (cafeteria)
1065 Summit Ave.
St. Paul, MN
contact: Jay Bellows (612) 222-7253

Bloomington Amateur Radio Club (BARC)
Creekside Community Center
98th and Penn Ave. So.
Bloomington, MN
contact: Art Putt (612) 881-7181

SE Metro Area Radio Club (SEMARC)
St. Thomas Aquinas Activity Bldg.
920 Holly Ave.
St. Paul Park, MN
contact: David Harrell (612) 459-1647

The above Minnesota test are listed as a help to readers near or traveling thru the area. If you are interested in any of these, please

save this listing as we may not always have space available to list them. Thanks to "Ground Wave" for the above information.

This section of Badger State Smoke Signals is available to publicize your Volunteer Examiner Amateur Radio license examination schedules. Please send us your schedules of dates, times, and locations that you will be conducting examinations and we will include the information here. Be sure to include contact address and any other necessary requirements. Information should be sent to K9EN at the address shown on page 2.

MORE ON WB9TYT

Dave Knaus, WA9POV, has now taken over the duties of being relegated to the hamshack at WB9TYT, while the "real TYT" one floor above him (afflicted limb elevated higher than his posterior [per Dr.'s orders]) deciphers the mysteries of MSYS for him via a two-way intercom. Dave is able to perform this feat on a REGULAR daily basis and has proved to be a Godsend for Dan, if not for myself (my schedule has made the task a "hit-or-miss" deal).

Many thanks for Dave for doing this - - TYT is again fully operational because of his efforts. ..

Jerry -- KC9BK @ KC9BK.WI.USA.NA

1991 RiverLAN Spring Packet Conference

The 1991 RiverLAN Spring Packet Conference will be held Saturday, April 13, 1991 at Kryzko Commons, Winona State University, Winona, MN. Talk in on 146.04/64. Registration at 9:30 with the conference starting at 10:00 a.m. The fee of \$7.00 includes coffee, rolls, lunch and gratuity.

This year's conference will offer a variety of sessions. Minnesota and Wisconsin Frequency Coordinators, Paul Emeott, KOLAV and Nels Harvey, WA9JOB will discuss frequency coordination.

Scott, N6VB will discuss Packet Clusters. The DX cluster system will be described with a discussion about how clusters can be used for other communication such as emergency traffic.

Les, KOBAD will conduct a New Operators session, where you can learn the ins and outs and the basics of packet radio for those who are new to this aspect of the hobby.

Duane, W9HWQ will have an operating portable packet station on premises to demonstrate one method of setting up movable packet stations.

A session on the new BAYCOM program and the familiar DIGICOM program will be conducted by Van, WA9FIO.

NEW THIS YEAR - SOFTWARE EXCHANGE. Bring your favorite program to be copied, bring blank disks (IBM and Commodore 5 1/4 disks).

PLEASE register before April 5, 1991 with Mike Mullen, NOBUI, 162 East 10th st. Winona, MN 55987 or packet to NOBUI@W9LZQ.WI

WE NO-CODE HAM LICENSEES: WE HAVE TO PROVE OURSELVES

Many of us were greatly pleased when the FCC finally approved the no-code ham license. It's been a long battle for those who remember the no-code proposals of 1976 and 1983 which were shot down by the massive opposition of already-licensed Amateurs. When the no-code license came, it brought a range of privileges that many thought would only come after many more years. And now, anyone can find their nearest Volunteer Examiner session, take a written test, and walk out knowing a license will soon be in the mail.

It sounds like the battle is won for no-code proponents. Legally, that is true, but I submit that the REAL battle has just begun. That is the battle for full acceptance of no-code licensees by the rest of the Amateur Radio community. The outcome of that battle is, I believe, completely in the hands of the new, no-code hams. My own recent experience illustrates the danger that Amateur Radio could become divided into two warring, or at least non-cooperating, camps.

First, a little of my background. I've been interested in electronics and radio for more than 30 years. I will hold up my technical credentials against those of any Amateur. Some years ago, I passed the exam for an FCC First Class Radiotelephone license with radar endorsement, and have held my commercial license ever since. Through the year, I've know a number of people with FCC commercial licenses and degrees in electrical engineering who, like me would have been hams but for the boredom of Morse Code.

I always said I'd be first in line for a no-code license, and, a few days after the new rules went into effect, I took and passed the no-code Technician exam. As someone who has long considered himself a friend of Amateur Radio,

I looked forward with pleasure to the day I would get a ham ticket. I suppose it was rather naive, considering the controversy over no-code, but I presumed I would be welcomed into what the ARRL likes to call the "fraternity." That was not the case.

I went to a radio club that was giving exams and joined a number of people taking test for new licenses or upgrades. I was favorably impressed with the professionalism with which the club ran their exam session. That impression, however, was soon destroyed. At the end of the session, the examiner who appeared to be in charge started muttering about the ham bands turning into "CB City" as soon as he saw my paperwork. When I was called to hear the results of my exam, one examiner congratulated me, saying "You're now a Technician." The other examiner quickly chimed in, though adding a snide "of sorts." Then come the words that stung: "...or a CBer." A day I thought for years would be one of pleasure turned into bitterness, and I left wondering if I really wanted to be a ham after all.

I suspect I'm not the only new Technician awaiting a license who has heard similar remarks. And I no longer think these remarks will be absent when my license comes and I get on the air.

Upon reflection, it became obvious to me that those remarks indicate a very deep-seated suspicion on the part of many present Amateurs. Why else would otherwise friendly people insult someone they've never met just because he wanted to join their hobby? Why, with commercial interest greedily eyeing Amateur bands as "under utilized" spectrum, would Amateurs discourage new operators whose very presence on the air can help preserve their hobby. The answer has to be that they deeply fear a degradation of the quality of operation on the Amateur bands.

Because of this, I realize that I and all other no-code Amateurs will be on trial before the rest of the Amateur community for some time to come. Every time we key a mike, we'll be under a microscope. If we are to win the acceptance of the Amateurs on the air today and I believe it is vital to the future of the Amateur Service that we do so we must insure that our every action related to Amateur Radio is absolutely above reproach. We must set impeccable standards of proper, courteous, efficient operating, for every lapse by a no-code licensee will be magnified into proof that we are turning the bands in to another CB.

Let's rise to the challenge. I know that many, if not most, of those coming into Amateur Radio through the no-code license are very highly-qualifies technically. Let's make sure that our procedures and courtesy leave nothing to be criticized by other Amateurs. If you've just gotten a no-code license, please spend the time to learn proper Amateur procedures, either by reading books on Amateur Radio or by monitoring the bands for a while before transmitting. And let's be courteous to a fault.

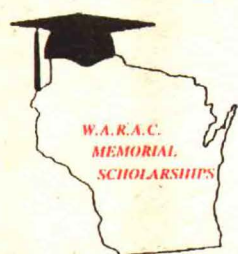
If you did spend time on CB, please, PLEASE purge your vocabulary of all CB lingo before going on the Amateur bands. A few "good buddies" or "ten-fours" can set us all back years.

After we've shown our fellow Amateurs that no-code hams can be good, courteous operators, we'll be able to overcome any barriers of resentment and prejudice and do our part to assure the continued growth and advancement of a proud and valued tradition. I have faith the Amateur community WILL accept us once we have proven ourselves. Let's make sure we give them good reasons to do so.

no author given.

--from CFMC SQUELCH TALE

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PO Box 102

Milwaukee, WI 53172

Fox Cities Hamfest 91

November 3, 1991

Starlite Club, Hwy. 55 north of Kaukauna

HAMFEST INFO:
Don Baker
621 W. 7th St.
Kaukauna, WI 54130
414-766-3886

EXAM INFO:
Larry, KD9IA,
414-788-3823, or
Don, NB9J,
414-766-3886

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